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(54) Title: POLYMORPHISMS AND NEW GENES IN THE REGION OF THE HUMAN HEMOCHROMATOSIS GENE (57) Abstract Polymorphic sites in the region surrounding the HFE gene are provided. These polymorphisms are useful as surrogate markers in diagnostic assays for hemochromatosis. Additionally, a fine structure map of the 1 megabase region surrounding the HFE gene is provided, along with 235 kb of DNA sequence and 8 loci corresponding to candidate genes within the 1 megabase region, and in the purification of related proteins.		

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Polymorphisms and New Genes in the Region of the Human Hemochromatosis Gene

BACKGROUND OF THE INVENTION

Hereditary hemochromatosis (HH) is an inherited disorder of iron metabolism wherein the body accumulates excess iron. In symptomatic individuals, this excess iron leads to deleterious effects by being deposited in a variety of organs leading to their failure, and resulting in cirrhosis, diabetes, sterility, and other serious illnesses. The gene which is defective in this disease was disclosed in copending U.S.S.N. 08/652,265.

Fine structure mapping of the region to which the gene responsible for HH, HFE (denoted HH or HFE in some publications), was mapped makes possible the identification of candidate sequences comprising the HFE gene, along with structural elements for regulation and expression and neighboring genes.

A variety of techniques is available for fine structure mapping, including direct cDNA selection, exon-trapping, and genomic sample sequencing. The direct selection approach (Lovett *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:9628-9623 (1991)) involves the hybridization of cDNA fragments to genomic DNA. This technique is extremely sensitive and capable of isolating portions of rare transcripts. Exon-trapping (Church *et al.* Nature Genetics 6:98-105 (1994)) recovers spliced introns from *in vivo* expressed genomic DNA clones and produces candidate exons without requiring any prior knowledge of the target's gene expression. High-throughput genomic DNA sequencing with comparison of the sequence data to databases of expressed sequences has also been used, such as in the positional cloning of the Werner syndrome gene (Yu *et al.* Science 277:258-262 (1996)) and in cloning by homology of the second Alzheimer's disease gene on chromosome 1 (Levy-Lahad *et al.* Science 269:973-977 (1995)).

HH is typically inherited as a recessive trait; in the current state of knowledge, homozygotes carrying two defective copies of the gene are most frequently affected by the disease. In addition, heterozygotes for the HFE gene are more susceptible to sporadic porphyria cutanea tarda and potentially other disorders (Roberts *et al.*, Lancet 349:321-323 (1997)). It is estimated that approximately 10-15% of Caucasians carry one copy of the HFE gene mutation and that there are about one million homozygotes in the United States. HH, thus, represents one of the most common genetic disease mutations in Caucasian individuals. Although ultimately HH produces debilitating symptoms, the majority of homozygotes and heterozygotes have not been diagnosed.

The need for such diagnostics is documented, for example, in Barton, J.C. *et al.* Nature Medicine 2:394-395 (1996); Finch, C.A. West J Med 153:323-325 (1990); McCusick, V. Mendelian Inheritance in Man pp. 1882-1887, 11th ed., (Johns Hopkins University Press, Baltimore (1994)); Report of a Joint World Health Organization/Hemochromatosis Foundation/French Hemochromatosis Association Meeting on the Prevention and Control of Hemochromatosis (1993); Edwards, C.Q. *et al.* New Engl J Med 328:1616-1620 (1993); Bacon, B.R. New Engl J Med 326:126-

127 (1992); Balan, V. et al. Gastroenterology 107:453-459 (1994); Phatak, P.D. et al. Arch Int Med 154:769-776 (1994).

A single mutation in the HFE gene, designated 24d1 in copending U.S.S.N. 08/630,912, gave rise to the majority of disease-causing chromosomes present in the population today.

5 This is referred to herein as the "common" or "ancestral" or "common ancestral" mutation. These terms are used interchangeably. It appears that about 80% to 90% of all HH patients carry at least one copy of the common ancestral mutation which is closely linked to specific alleles of certain genetic markers close to this ancestral HFE gene defect. These markers are, as a first approximation, in the allelic form in which they were present at the time the ancestral HFE mutation occurred. See, for
10 example, Simon, M. et al. Am J Hum Genet 41:89-105 (1987); Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995); Worwood, M. et al. Brit J Hematol 86:863-866 (1994); Summers, K.M. et al. Am J Hum Genet 45:41-48 (1989).

Several polymorphic markers in the HFE region have been described and shown to have alleles that are associated with HH disease. These markers include the published microsatellite
15 markers D6S258, D6S306 (Gyapay, G. et al. Nature Genetics 7:246-339 (1994)), D6S265 (Worwood, M. et al. Brit J Hematol 86:833-846 (1994)), D6S105 (Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995)), D6S1001 (Stone, C. et al. Hum Molec Genet 3:2043-2046 (1994)), D6S1260 (Raha-Chowdhury et al. Hum Molec Genet 4:1869-1874 (1995)) as well as additional microsatellite and single-nucleotide-polymorphism markers
20 disclosed in co-pending PCT application WO 96/06583, the disclosure of which is hereby incorporated by reference in its entirety. Additionally, copending U.S.S.N. 08/630,912 disclosed additional markers 24d2 and 24d7.

The symptoms of HH are often similar to those of other conditions, and the severe effects of the disease often do not appear immediately. Accordingly, it would be desirable to provide a
25 method to identify persons who may be destined to become symptomatic in order to intervene in time to prevent excessive tissue damage associated with iron overload. One reason for the lack of early diagnosis is the inadequacy of presently available diagnostic methods to ascertain which individuals are at risk, especially while such individuals are presymptomatic.

Although blood iron parameters can be used as a screening tool, a confirmed
30 diagnosis often employs liver biopsy which is undesirably invasive, costly, and carries a risk of mortality. Thus, there is a clear need for the development of an inexpensive and noninvasive diagnostic test for detection of homozygotes and heterozygotes in order to facilitate diagnosis in symptomatic individuals, provide presymptomatic detection to guide intervention in order to prevent organ damage, and for identification of heterozygote carriers.

35 Furthermore, a need exists for both methods for fine structure mapping and a fine structure map of the region of the chromosome to which the HH locus maps. This and other needs are addressed by the present invention.

SUMMARY OF THE INVENTION

One aspect of the invention is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1.

5 Another aspect of the invention is an oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1.

Another aspect of the invention is an isolated nucleic acid molecule comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic site of Table 1.

10 Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a haplotype of

Table 1,

15 wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

20 providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a genotype

defined by a polymorphic allele of Table 1,

25 wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a culture of lymphoblastoid cells having the designation ATCC CRL-12371.

30 One aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF3.

35 A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF5.

40 A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to RoRet.

5 Additional aspects of the invention include nucleic acid sequences that are cDNAs, polypeptides encoded by the nucleic acids of the invention and antibodies specifically immunoreactive thereto, vectors comprising the nucleic acid sequences of the invention, and host cells stably transfected with the nucleic acids of the invention.

10 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF3.

15 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF5.

20 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of RoRet.

25 BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 depicts a combination genetic, physical and transcription map of the HFE gene region. The first line shows the relative positions of selected genetic markers that define the HFE region. The heavy bar below represents the YAC clone used in the direct selection experiment. The order and positions of the bacterial clones employed in the exon-trapping and sample sequencing is indicated under the YAC. The thin bar under the bacterial clones represents the approximate locations of a subset of the expressed sequence fragments mapped to the contig. The thicker bars show the location of the cDNAs cloned. Two regions are bracketed; the butyrophilin family of genes (BTF), and the region where complete genomic sequencing was carried out.

35 Figure 2 is a schematic of the 250 kb of genomic sequence including the HFE gene. Both the structure of the overall cDNA (top) and that corresponding to the coding regions (bottom), as well as the direction of transcription are shown. The positions of the histone genes, the zinc α -2 glycoprotein pseudogene, and the ESTs are also shown.

40 Figure 3 depicts an alignment of the predicted amino acid sequence of the BTF proteins. Sequences were aligned in a pair-wise fashion using CLUSTAL W (Thompson *et al.* Nucl. Acids Res. 22:4673-4680) to deduce the most parsimonious arrangement. The asterisks under the

alignment represent amino acids conserved in all 6 proteins; the "dots" represent conserved amino acids substitutions. Boxed are the regions within the proteins which correspond to three conserved motifs: 1) the B-G domain, 2) the transmembrane domain (TM), and 3) the B30-2 exon domain.

Figure 4, panel (A) depicts a Northern blot analysis of representative members of the two groups of BTF proteins, BTF1 and BTF5. BTF1 hybridized to all tissues on the blot as a major transcript at 2.9 kb and a minor one at 5.0 kb. BTF5 hybridized to several transcripts ranging between 4.0 and 3.1 kb and as a similar expression profile to BTF1. Autoradiography was for 24 hours. The β -actin hybridization demonstrated the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. In panel (B), RT-PCR analysis demonstrated that the expression of both genes was widespread. Included in the (+) lane are cDNA 21 and 44 as positive controls; the (-) lane represents the no-DNA control. Amplification using primers for the RFP gene (Isomura *et al.* Nucleic Acid Res. 20:5305-5310 (1992)) controlled for the integrity of the cDNA. All first strand cDNAs were checked for contaminating genomic DNA amplification by carrying out an identical experiment excluding the reverse transcriptase. In all cases, no amplification was obtained (data not shown).

Figure 5(A) depicts an alignment of the predicted amino acid sequence of the RoRet gene to the 52 kD Ro/SSA auto-antigen protein. The asterisks under the alignment represent conserved amino acids; the "dots" represent conserved amino acids substitutions. The putative DNA binding cysteine-rich domain and the B30-2 exon domain are boxed. Figure 5(B) depicts an alignment of the predicted amino acid sequence of the two novel putative sodium phosphate transport proteins to that of the NPT1.

Figure 6, panel (A) depicts a Northern blot analysis of the RoRet gene. The RoRet cDNA hybridized to 4 different transcripts, ranging from 7.1 kb to 2.2 kb. Autoradiography was performed for 4 days. The re-hybridization of the blot with a β -actin probe showed the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. Panel (B) depicts RT-PCR analysis of the RoRet gene. Included in the (+) lane was a cDNA 27 positive control. Weak amplification of the correct size was observed in the small intestine, kidney and liver. The other tissues were negative as was the no DNA control lane (-). The RFP primers demonstrated the integrity of the cDNA. Panel (C) depicts Northern blot analysis of NPT3 and NPT4. NPT3 was expressed at high abundance in the heart and muscle as a single 7.2 kb transcript. Lesser amounts were found in the other tissues. The expression pattern of NPT4 was more restricted, being found only in the liver and kidney as a smear of transcripts ranging from 2.8 to 1.7 kb. Panel (D) depicts RT-PCR analysis of the NPT3 and NPT4 genes. Included in the (+) lane were the respective cDNA22E and 22B positive controls. The NPT3 gene was expressed as the proper size PCR fragment in kidney, liver, spleen and testis. A smaller fragment was detected in all tissues with the exception of the liver. The no DNA control lane (-) was negative. NPT4 was expressed as the proper size fragment in the small intestine, kidney, liver and testis. Larger and smaller size fragments were found in all other tissues with the exception of the brain. For both genes these different size fragments may indicate alternative splice events. The no DNA control lane (-) was negative. The RFP primers demonstrated the integrity of the cDNA.

Figure 7 depicts the sequences of cDNA 21 (BTF1), cDNA 29 (BTF3), cDNA 23 (BTF4), cDNA 44 (BTF5), cDNA 32 (BTF2), cDNA 27 (RoRet), cDNA 22B (NPT3), cDNA22E (NPT4).

Figure 8 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an unaffected individual.

Figure 9 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an HH affected individual. Polymorphic sites in the HH affected individual determined by comparing a sequence of the corresponding region from an HH unaffected individual are listed and described in Table I.

DETAILED DESCRIPTION

A. Definitions

Abbreviations for the twenty naturally occurring amino acids follow conventional usage. In the polypeptide notation used herein, the left-hand direction is the amino terminal direction and the right-hand direction is the carboxyl-terminal direction, in accordance with standard usage and convention. Similarly, unless specified otherwise, the left hand end of single-stranded polynucleotide sequences is the 5' end; the left hand direction of double-stranded polynucleotide sequences is referred to as the 5' direction. The direction of 5' to 3' addition of nascent RNA transcripts is referred to as the transcription direction; sequence regions on the DNA strand having the same sequence as the RNA and which are 5' to the 5' end of the RNA transcript are referred to as "upstream sequences"; sequence regions on the DNA strand having the same sequence as the RNA and which are 3' to the 3' end of the RNA transcript are referred to as "downstream sequences".

The term "nucleic acids", as used herein, refers to either DNA or RNA. "Nucleic acid sequence" or "polynucleotide sequence" refers to a single- or double-stranded polymer of deoxyribonucleotide or ribonucleotide bases read from the 5' to the 3' end. It includes both self-replicating plasmids, infectious polymers of DNA or RNA and nonfunctional DNA or RNA. The complement of any nucleic acid sequence of the invention is understood to be included in the definition of that sequence.

"Nucleic acid probes" may be DNA or RNA fragments. DNA fragments can be prepared, for example, by digesting plasmid DNA, or by use of PCR, or synthesized by either the phosphoramidite method described by Beaucage and Carruthers, Tetrahedron Lett. 22:1859-1862 (1981), or by the triester method according to Matteucci, *et al.*, J. Am. Chem. Soc. 103:3185 (1981), both incorporated herein by reference. A double stranded fragment may then be obtained, if desired, by annealing the chemically synthesized single strands together under appropriate conditions or by synthesizing the complementary strand using DNA polymerase with an appropriate primer sequence. Where a specific sequence for a nucleic acid probe is given, it is understood that the complementary strand is also identified and included. The complementary strand will work equally well in situations where the target is a double-stranded nucleic acid.

The phrase "selectively hybridizing to" refers to a nucleic acid probe that hybridizes, duplexes or binds only to a particular target DNA or RNA sequence when the target sequences are present in a preparation of total cellular DNA or RNA. "Complementary" or "target" nucleic acid sequences refer to those nucleic acid sequences which selectively hybridize to a nucleic acid probe. Proper annealing conditions depend, for example, upon a probe's length, base composition, and the number of mismatches and their position on the probe, and must often be determined empirically. For

discussions of nucleic acid probe design and annealing conditions, see, for example, Sambrook *et al.*, Molecular Cloning: a Laboratory Manual (2nd ed.), Vols. 1-3, Cold Spring Harbor Laboratory, (1989) or Current Protocols in Molecular Biology, F. Ausubel *et al.*, ed. Greene Publishing and Wiley-Interscience, New York (1987).

5 The phrase "nucleic acid sequence encoding" refers to a nucleic acid which directs the expression of a specific protein or peptide. The nucleic acid sequences include both the DNA strand sequence that is transcribed into RNA and the RNA sequence that is translated into protein. The nucleic acid sequences include both the full length nucleic acid sequences as well as non-full length sequences derived from the full length protein. It being further understood that the sequence
10 includes the degenerate codons of the native sequence or sequences which may be introduced to provide codon preference in a specific host cell.

 The phrase "isolated" or "substantially pure" refers to nucleic acid preparations that lack at least one protein or nucleic acid normally associated with the nucleic acid in a host cell.

 The phrase "expression cassette", refers to nucleotide sequences which are capable
15 of affecting expression of a structural gene in hosts compatible with such sequences. Such cassettes include at least promoters and optionally, transcription termination signals. Additional factors necessary or helpful in effecting expression may also be used as described herein.

 The term "operably linked" as used herein refers to linkage of a promoter upstream from a DNA sequence such that the promoter mediates transcription of the DNA sequence.

20 The term "vector", refers to viral expression systems, autonomous self-replicating circular DNA (plasmids), and includes both expression and nonexpression plasmids. Where a recombinant microorganism or cell culture is described as hosting an "expression vector," this includes both extrachromosomal circular DNA and DNA that has been incorporated into the host chromosome(s). Where a vector is being maintained by a host cell, the vector may either be stably
25 replicated by the cells during mitosis as an autonomous structure, or is incorporated within the host's genome.

 The term "gene" as used herein is intended to refer to a nucleic acid sequence which encodes a polypeptide. This definition includes various sequence polymorphisms, mutations, and/or sequence variants wherein such alterations do not affect the function of the gene product. The term
30 "gene" is intended to include not only coding sequences but also regulatory regions such as promoters, enhancers, and termination regions. The term further includes all introns and other DNA sequences spliced from the mRNA transcript, along with variants resulting from alternative splice sites.

 The term "plasmid" refers to an autonomous circular DNA molecule capable of replication in a cell, and includes both the expression and nonexpression types. Where a recombinant
35 microorganism or cell culture is described as hosting an "expression plasmid", this includes both extrachromosomal circular DNA molecules and DNA that has been incorporated into the host chromosome(s). Where a plasmid is being maintained by a host cell, the plasmid is either being stably replicated by the cells during mitosis as an autonomous structure or is incorporated within the host's genome.

The phrase "recombinant protein" or "recombinantly produced protein" refers to a peptide or protein produced using non-native cells that do not have an endogenous copy of DNA able to express the protein. The cells produce the protein because they have been genetically altered by the introduction of the appropriate nucleic acid sequence. The recombinant protein will not be found in association with proteins and other subcellular components normally associated with the cells producing the protein. The terms "protein" and "polypeptide" are used interchangeably herein.

The following terms are used to describe the sequence relationships between two or more nucleic acids or polynucleotides: "reference sequence", "comparison window", "sequence identity", "percentage of sequence identity", and "substantial identity". A "reference sequence" is a defined sequence used as a basis for a sequence comparison; a reference sequence may be a subset of a larger sequence, for example, as a segment of a full-length cDNA or gene sequence given in a sequence listing, or may comprise a complete cDNA or gene sequence.

Optimal alignment of sequences for aligning a comparison window may, for example, be conducted by the local homology algorithm of Smith and Waterman Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman and Wunsch J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson and Lipman Proc. Natl. Acad. Sci. U.S.A. 85:2444 (1988), or by computerized implementations of these algorithms (for example, GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package Release 7.0, Genetics Computer Group, 575 Science Dr., Madison, WI).

The terms "substantial identity" or "substantial sequence identity" as applied to nucleic acid sequences and as used herein and denote a characteristic of a polynucleotide sequence, wherein the polynucleotide comprises a sequence that has at least 85 percent sequence identity, preferably at least 90 to 95 percent sequence identity, and more preferably at least 99 percent sequence identity as compared to a reference sequence over a comparison window of at least 20 nucleotide positions, frequently over a window of at least 25-50 nucleotides, wherein the percentage of sequence identity is calculated by comparing the reference sequence to the polynucleotide sequence which may include deletions or additions which total 20 percent or less of the reference sequence over the window of comparison. The reference sequence may be a subset of a larger sequence.

As applied to polypeptides, the terms "substantial identity" or "substantial sequence identity" mean that two peptide sequences, when optimally aligned, such as by the programs GAP or BESTFIT using default gap weights, share at least 80 percent sequence identity, preferably at least 90 percent sequence identity, more preferably at least 95 percent sequence identity or more. "Percentage amino acid identity" or "percentage amino acid sequence identity" refers to a comparison of the amino acids of two polypeptides which, when optimally aligned, have approximately the designated percentage of the same amino acids. For example, "95% amino acid identity" refers to a comparison of the amino acids of two polypeptides which when optimally aligned have 95% amino acid identity. Preferably, residue positions which are not identical differ by conservative amino acid substitutions. For example, the substitution of amino acids having similar chemical properties such as charge or polarity are not likely to effect the properties of a protein. Examples include glutamine for asparagine or glutamic acid for aspartic acid.

The phrase "substantially purified" or "isolated" when referring to a peptide or protein, means a chemical composition which is essentially free of other cellular components. It is preferably in a homogeneous state although it can be in either a dry or aqueous solution. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein which is the predominant species present in a preparation is substantially purified. Generally, a substantially purified or isolated protein will comprise more than 80% of all macromolecular species present in the preparation. Preferably, the protein is purified to represent greater than 90% of all macromolecular species present. More preferably the protein is purified to greater than 95%, and most preferably the protein is purified to essential homogeneity, wherein other macromolecular species are not detected by conventional techniques.

The phrase "specifically binds to an antibody" or "specifically immunoreactive with", when referring to a protein or peptide, refers to a binding reaction which is determinative of the presence of the protein in the presence of a heterogeneous population of proteins and other biologics. Thus, under designated immunoassay conditions, the specified antibodies bind to a particular protein and do not bind in a significant amount to other proteins present in the sample. Specific binding to an antibody under such conditions may require an antibody that is selected for its specificity for a particular protein. A variety of immunoassay formats may be used to select antibodies specifically immunoreactive with a particular protein. For example, solid-phase ELISA immunoassays are routinely used to select monoclonal antibodies specifically immunoreactive with a protein. See Harlow and Lane (1988) Antibodies, a Laboratory Manual, Cold Spring Harbor Publications, New York, for a description of immunoassay formats and conditions that can be used to determine specific immunoreactivity.

As used herein, "EST" or "Expressed Sequence Tag" refers to a partial DNA or cDNA sequence of about 150 to 500, more preferably about 300, sequential nucleotides of a longer sequence obtained from a genomic or cDNA library prepared from a selected cell, cell type, tissue or tissue type, or organisms which longer sequence corresponds to an mRNA or a gene found in that library. An EST is generally DNA. One or more libraries made from a single tissue type typically provide at least 3000 different (i.e. unique) EST's and potentially the full complement of all possible EST's representing all possible cDNAs, e.g., 50,000 - 100,000 in an animal such as a human. (See, for example, Adams *et al.* Science 252:1651-1656 (1991)).

"Stringent" as used herein refers to hybridization and wash conditions of 50% formamide at 42°C. Other stringent hybridization conditions may also be selected. Generally, stringent conditions are selected to be about 5° C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength and pH. The T_m is the temperature (under defined ionic strength and pH) at which 50% of the target sequence hybridizes to a perfectly matched probe. Typically, stringent conditions will be those in which the salt concentration is at least about 0.02 molar at pH 7 and the temperature is at least about 60°C. As other factors may significantly affect the stringency of hybridization, including, among others, base composition and size of the complementary strands, the presence of organic solvents and the extent of base mismatching, the combination of parameters is more important than the absolute measure of any one.

B. Transcript Map and New Genes near HH

The instant invention provides a fine structure map of the 1 megabase region surrounding the HFE gene. As part of that map the instant invention provides approximately 250 kb of DNA sequence of which about 235 kb are provided in Figure 8 and eight loci of particular interest corresponding to candidate genes within the 1 megabase region. These loci are useful as genetic and physical markers for further mapping studies. Additionally, the eight cDNA sequences corresponding to those loci are useful, for example, for the isolation of other genes in putative gene families, the identification of homologs from other species, and as probes for diagnostic assays. In particular, isolated nucleic acid sequences of at least 18 nucleotides substantially identical to contiguous nucleotides of a cDNA of the invention are useful as PCR primers. Typically, the PCR primer will be used as part of a pair of primers in a PCR reaction. Isolated nucleic acid sequences preferably comprising about 18-100 nucleotides, more preferably at least 18 nucleotides, substantially identical to contiguous nucleotides in a cDNA of the invention are useful in the design of PCR primers and probes for hybridization assays. Additionally, the proteins encoded by those cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

Thus, in one embodiment of the invention, a 235 kb sequence is provided for the HFE subregion within the 1 megabase region mapped. This sequence can serve as a reference in genetic or physical analysis of deletions, substitutions, and insertions in that region. Additionally, the sequence information provides a resource for the further identification of new genes in that region. Thus, nucleic acid sequences substantially identical to the 235 kb sequence are also included in the scope of this invention.

In a further embodiment of the invention, a family of five genes, BTF1-5, is provided which are related by sequence homology to the milk protein butyrophilin (BT) (Figures 1, 3, and 7). The predicted amino acid sequences of the proteins encoded by these genes are provided in Figure 3. These cDNAs are useful for the identification of further members of the BT family and to study regulation of expression of this family of genes. The proteins encoded by these cDNAs can be useful in the identification and isolation of ligands for the BT protein, and in the generation of agonists or antagonists of BT function. Nucleic acid sequences substantially identical to BTF1-5 and the proteins encoded by them are also included in the scope of this invention, including allelic forms.

In a further embodiment of the invention, a novel gene RoRet is provided, which is related by sequence homology to the 52 kD Ro/SSA Lupus and Sjogren's syndrome autoantigen. This sequence is especially useful in the identification of other genes that may be involved in Lupus or Sjogren's syndrome. The protein encoded by this cDNA can be useful in the identification and isolation of ligands for the autoantigen, and in the generation of agonists or antagonists of the antigen. Nucleic acid sequences substantially identical to RoRet and the proteins encoded by them are also included in the scope of this invention.

In a further embodiment of the invention, two genes, NPT3 and NPT4, with structural homology to a type 1 sodium transport gene are provided. These cDNAs and the proteins expressed by them are useful in determining the etiology of hypophosphatemia, along with being useful as probes

in the identification and isolation of further members of the gene family. Nucleic acid sequences substantially identical to the NPT1-like sequences and the proteins encoded by them are also included in the scope of this invention.

C. Polymorphic Markers

5 The invention provides 397 new polymorphic sites in the region of the HFE gene. These polymorphisms are listed in Table 1. As described below, these polymorphisms were identified by comparison of the DNA sequence of an affected individual homozygous for the common ancestral HH mutation with that of an unaffected individual disclosed in copending U.S. 08/724,394.

10 Table 1. Polymorphic Sites in the HH Region

Base Location	Difference	Base Location	Difference
35-36	AC DEL	19755	G-A
841	T-C	19949	C-T
15 2662-2663	TT DEL	20085	C-T
3767	T-C	20366-20367	A INS
3829	C-G	20463	C-A
4925-4928	TAAA DEL	20841	A-T
5691	C-T	21059	A-T
20 5839	T-C	21117	A-G
6011	G-A	21837	A-C
6047	C-G	22293	A-C
6231	G-A	22786	C-A
6643	A DEL	23009	G-A
25 6698	T-C	24143	T-A
7186	T-C	26175	G-C
7273	G-A	26667	C-A
7545-7558	TCACACACCGATTGG DEL	26994	T-C
7672	G DEL	27838	G-T
30 7933	T-C	27861	T DEL
8746	T-G	28132	G-A
9115	G-A	29100	G-A
9823	G-A	29454-29457	TTTT DEL
10027	G-A	29787	T-G
35 10214	C-T	29825	A-C
10828	A-G	30009	T-C
10918	C-G	30177	A-G
10955	A-G	30400	A-G
40 11524	C-A	31059	T-A
11674	A-G	31280	C-T
11955	T-C	31749	C-T
12173-12175	TTT DEL	32040	C-G
13304	G-A	32556-32559	TGTG DEL
13455	G-A	33017	T-G
45 14416-14417	A INS	33026	T DEL
14998	C-T	34434	C-T
15564	T-C	35179	A-C
15887	A-G	35695	G-A
15904-15919	CCAAACTGATCTTTGA DEL	35702	G-A
50 16019	T DEL	35983	A-G
16211	A-T	37411	A-G
17461	A-G	38526	C-T

	Base Location	Difference	Base Location	Difference
	40431	C-A	72688	C-G
	42054-42055	TT DEL	75323-75324	T INS
	43783-43784	TTTT INS	75887	G-C
5	45120	C DEL	77519	T-C
	45567	A-C	77749	G-A
	46601	A-T	77908	T-C
	47255	C-G	78385	C-G
	47758	C-A	78592-78593	AG INS
	47994	G-C	80189	T-G
10	48440	G-A	80279	T DEL
	48650	T-G	80989-80990	A INS
	48680	A-G	81193	T-C
	50240	C-T	81273	A DEL
	50553	G-A	82166	G-A
15	50586	G-T	83847	T DEL
	51322	G-C	84161-84162	CA-GG
	51747	A-G	84533	A-G
	52474	C-G	84638	T-G
	52733	C-A	85526	T-G
20	52875	G-A	85705	G-T
	53631-53637	TTTTTT DEL	86984	T-C
	53707	G-A	87655	T-C
	54819	A-G	87713	A-C
	55913	T-C	87892	C-T
25	56225	A-C	88192	T DEL
	56510	T-C	88528	A-G
	56566	G-A	89645	A-T
	56618	A-T	89728	A-G
	57815	A-G	90088	T-C
30	58011	T DEL	91193-91194	2209bp INS
	58247-58248	T INS	91373	T-C
	58926	C-G	91433-91434	A INS
	59406	C-G	91747	G-A
	59422	G-C	93625	T DEL
35	60221-60222	A INS	95116-95117	T INS
	60656-60657	CA DEL	96315	G-A
	61162	G-A	97981	A-G
	61465	G-A	98351	T DEL
	61607	A DEL	99249	C-T
40	61653	T-C	100094-100095	T INS
	61794-61795	T INS	100647-100648	TTC INS
	62061	G-C	100951	C-T
	62362	T-G	101610	C-G
	62732	C-G	102589	C-T
45	63364	G-A	103076-103077	TATATATATATA INS
	63430-63431	GT INS	103747	T-C
	63754	C-T	105638	A-C
	63785	A-C	107024	C-T
	63870-63871	A INS	107322	C-T
50	64788	A-G	107858	C-G
	64962	G-A	109019	A DEL
	65891	C-T	109579	T DEL
	66675	G-C	110021	C-A
	67186-67187	ATT INS	111251	C-A
55	67746-67747	TT INS	111425	G-A
	68259	T-C	112644	T-A
	68836	T-C	113001	G-C
	68976	C-G	113130	C-T
	72508	T-G	114026	G-A

	Base Location	Difference	Base Location	Difference
	114250	A DEL	176222	T-C
	115217	C-G	176524	A-T
	117995	G-A	176684	G-A
5	118874	A-G	176815	T-C
	119470	T-C	177049	T-C
	119646	G-T	177065	G-T
	120853	C-T	178285	T-C
	121582	G-A	178551-178552	CTTTTTTTTTTTT INS
10	123576	A-C	179114-179115	A INS
	125581	C-T	179260	C-G
	125970	G-T	179281	C-G
	126197	A-G	180023	G-C
	126672	A DEL	180430	T-C
	126672	G-C	180773	T-C
15	128220-128221	A INS	180824	T-C
	132569	C-T	181097	C-T
	133572	A-C	181183	A-T
	134064	T-G	182351	C-T
20	136999	G-A	183197	G-A
	137784	C-T	183623	A-T
	138903	G-A	183653	G-T
	139159-139160	A INS	183657	T-G
	140359	G-A	183795-183796	A INS
	140898	C-T	184060	G-A
25	141313	C DEL	184993	G-A
	141343	T-C	185918	A-G
	142148	T-C	186036	T-C
	142178	C-A	186506-186507	TAAC INS
30	142433-142434	ATAGA INS	186561-186568	TATTTATT DEL
	143783	C-T	186690	G DEL
	144090	C-T	186751	T-A
	144220-144221	A INS	187221	A-G
	144725	A-C	187260	A-G
35	145732-145733	AAAAAAAAAAAAA INS	187444-187447	CTCT DEL
	147016-147017	CG DEL	187831-187832	C INS
	147021	G-T	188638	G-A
	147536	T-G	188642	C-T
	148936	T-A	189246	T-C
40	149061	T-C	190340	A-C
	154341	A-T	190354	A-G
	154588	G-A	190762	A-G
	155464	G-A	191260	G-T
	158574	C-G	193018-193019	AGAT INS
45	160007	C-T	193147	T-G
	164348	A-T	193196-193197	C INS
	164499	C-G	193499	C-T
	166677-166678	AAAG INS	193738	C-G
	167389	G-A	193984-193985	ACACACAC INS
50	168506-168507	AGGATGGTCT INS	194064	C-G
	168515	T-C	194504	A DEL
	169413-169414	AA INS	194734	G-A
	170300-170301	TTGTTGTTGTTG INS	194890	A-C
	170491	G-A	195404	G-A
55	173428	T-C	195693	A-T
	173642	G-A	196205	G-A
	173948	T-G	197424	C-T
	175330	T-C	197513	C-T
	175836	T-C	197670	G-A
	176200	G-C	198055	C-A

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Base Location	Difference	Base Location	Difference
198401	C-T	215947	C-A
198692	A-G	216232	A-G
198780	T DEL	217478	G-A
199030	T-G	219052	T-C
199933	C-T	219082-219083	ATATATATATATATATAT INS
200027	G-A	219314	C-A
200439	T-A	219327	G-A
200452	A-G	219560	C-T
200472-200483	AATAATAATAAT DEL	219660	C-T
200559	A-T	219889	G-A
200745	A-G	220198	G-T
200919	T-A	220384	G-A
201816	C-T	220451-220452	CAAAAA INS
201861-201862	42bp INS	221363	G-A
202662	T-C	221645	G-A
202880	T-C	222119	T-C
204341	C-T	222358	A-G
204768	A-T	222367	A-C
205284	T-G	222686	A-G
207400	C-A	222959	T-C
208634	T-C	223270-223271	TT DEL
208718	T DEL	223283	T-C
208862	A-C	224964	T-C
209419-209420	TT DEL	225232	A-C
209802	G-A	225366-225367	TTTT INS
209944	C-G	225416	G-C
210299	A-G	225486	T-C
211142	G-A	226088	A-G
212072	G-A	228421	A-G
212146	T-C	230047	G-A
212379	G-A	230109	G-C
212637-212639	TCT DEL	230376	C-G
212696	T-C	230394	A-G
213042	T-A	231226	A-G
214192	A-G	231447	G-A
214529-214530	TTTTTTTTTTT INS	231835	A-G
214549	T-C	232400-232402	AAA DEL
214795	C-T	232402-232403	G INS
214908	T-G	232515	T-C
214977	A-G	232703	G-T
215769	C-T	232750	A-G

* D6S2238 occurs at base 1. 24d1 occurs at base 41316. D6S2239 occurs at base 84841. D6S2241 occurs at base 235032

Table 2. Polymorphic Allele Frequencies

Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
232703	53%	47%
231835	53%	47%
230394	85%	15%
230376	25%	75%
230109	53%	47%
225486	45%	55%
225416	75%	25%
220198	43%	57%
219660	58%	42%

	Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
	219560	53%	47%
	214977	65%	35%
	214908	50%	50%
5	214795	24%	76%
	214549	53%	47%
	214192	65%	35%
	210299	53%	47%
	208862	80%	20%
10	208634	48%	52%
	207400	25%	75%
	205284	50%	50%
	204341	53%	47%
	202880	58%	42%
	202662	98%	2%
15	200027	25%	75%
	199030	58%	42%
	198692	55%	45%
	198401	55%	45%
	198055	55%	45%
20	195693	60%	40%
	195404	25%	75%
	194890	55%	45%
	175330	53%	47%
	173948	83%	17%
25	173642	55%	45%
	173428	80%	20%
	168515	80%	20%
	160007	18%	82%
	149061	58%	42%
30	148936	82%	18%
	147536	100%	0%
	147021	46%	54%
	141343	55%	45%
	140359	55%	45%
35	138903	55%	45%
	132569	81%	19%
	125581	18%	82%
	121582	80%	20%
	120853	18%	82%
40	118874	85%	15%
	115217	50%	50%
	113130	40%	60%
	113001	48%	52%
	107858	48%	52%
45	103747	50%	50%
	96315	25%	75%
	91194	80%	20%
	90088	75%	25%
50	89728	50%	50%
	89645	50%	50%
	88528	63%	37%
	87892	75%	25%
	87713	60%	40%
	87655	50%	50%
55	86984	79%	21%
	85705	50%	50%
	85526	50%	50%

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Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
84838	50%	50%
84533	50%	50%
82166	78%	22%
81193	58%	42%
80189	50%	50%
78385	80%	20%
77908	88%	12%
68976	50%	50%
68259	51%	49%
66675	80%	20%
62732	50%	50%
62362	40%	60%
61653	48%	52%
61465	5%	95%
61162	60%	40%
53707	100%	0%
52875	50%	50%
52733	74%	26%
52474	47%	53%
50586	50%	50%
50553	50%	50%
50240	50%	50%
48680	53%	47%
48650	63%	37%
48440	50%	50%
47255	50%	50%
46601	53%	47%
45567	49%	51%
41316	5%	95%
40431	20%	80%
38526	23%	77%
37411	70%	30%
35983	5%	95%

These polymorphisms provide surrogate markers for use in diagnostic assays to detect the likely presence of the mutations 24d1 and/or 24d2, in preferably 24d1, in homozygotes or heterozygotes. Thus, for example, DNA or RNA from an individual is assessed for the presence or absence of a genotype defined by a polymorphic allele of Table 1, wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

These markers may be used singly, in combination with each other, or with other polymorphic markers (such as those disclosed in co-pending PCT application WO 96/06583) in diagnostic assays for the likely presence of the HFE gene mutation in an individual. For example, any of the markers defined by the polymorphic sites of Table 1 can be used in diagnostic assays in combination with 24d1 or 24d2, or at least one of polymorphisms HHP-1, HHP-19, or HHP-29, or microsatellite repeat alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98; 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170; 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-

2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, D6S258:199, D6S265:122, D6S105:124; D6S306:238; D6S464:206; and D6S1001:180.

Table 2 lists the frequency of about 100 of the alleles defined by the polymorphic sites of the invention in the general population. As is evident from the Table, certain of these alleles are present rarely in the general population. These polymorphisms are thus preferred as surrogate markers in diagnostic assays for the presence of a mutant HFE allele ("gene mutation") such as 24d1 or 24d2. Preferably, the frequency of the polymorphic allele used in the diagnostic assay in the general population is less than about 50%, more preferably less than about 25%, and most preferably less than about 5%. Thus, of the genotypes defined by the alleles listed in Table 2, polymorphisms occurring at base 35983 and base 61465 of Figure 1 are preferred.

It will be understood by those of skill in the art that because they were identified in an ancestral HH homozygote, the haplotypes defined by the polymorphic sites of Table 1 are predictive of the likely presence of the HFE gene mutation 24d1. Thus, for example, the likelihood of any affected individual having at least two or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual. Similarly, the likelihood of any affected individual having at least three or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual.

Thus, for example, in a diagnostic assay for the likely presence of the HFE gene mutation in the genome of the individual, DNA or RNA from the individual is assessed for the presence or absence of a haplotype of Table 1, wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

The markers defined by the polymorphic sites of Table 1 are additionally useful as markers for genetic analysis of the inheritance of certain HFE alleles and other genes which occur within the chromosomal region corresponding to the sequence of Figure 9 which include, for example, those disclosed in copending U.S.S.N. 08/724,394.

As the entire nucleotide sequence of the region is provided in Figure 9, it will be evident to those of ordinary skill in the art which sequences to use as primers or probes for detecting each polymorphism of interest. Thus, in some embodiments of the invention, the nucleotide sequences of the invention include at least one oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1. Furthermore, in some embodiments of the invention a preferred hybridization probe is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1. In some embodiments the polymorphic site is at base 35983 or base 61465.

It will also be appreciated that the nucleic acid sequences of the invention include isolated nucleic acid molecules comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic

site of Table 1. Such isolated DNA sequences are useful as primers, probes, or as the component of a kit in diagnostic assays for detecting the likely presence of the HFE gene mutation in an individual.

D. Nucleic Acid Based Screening

Individuals carrying polymorphic alleles of the invention may be detected at either the DNA, the RNA, or the protein level using a variety of techniques that are well known in the art. The genomic DNA used for the diagnosis may be obtained from body cells, such as those present in peripheral blood, urine, saliva, bucca, surgical specimen, and autopsy specimens. The DNA may be used directly or may be amplified enzymatically *in vitro* through use of PCR (Saiki et al. Science 239:487-491 (1988)) or other *in vitro* amplification methods such as the ligase chain reaction (LCR) (Wu and Wallace Genomics 4:560-569 (1989)), strand displacement amplification (SDA) (Walker et al. Proc. Natl. Acad. Sci. U.S.A. 89:392-396 (1992)), self-sustained sequence replication (3SR) (Fahy et al. PCR Methods Appl. 1:25-33 (1992)), prior to mutation analysis. The methodology for preparing nucleic acids in a form that is suitable for mutation detection is well known in the art.

The detection of polymorphisms in specific DNA sequences, such as in the region of the HFE gene, can be accomplished by a variety of methods including, but not limited to, restriction-fragment-length-polymorphism detection based on allele-specific restriction-endonuclease cleavage (Kan and Dozy Lancet ii:910-912 (1978)), hybridization with allele-specific oligonucleotide probes (Wallace et al. Nucl Acids Res 6:3543-3557 (1978)), including immobilized oligonucleotides (Saiki et al. Proc. Natl. Acad. Sci. U.S.A. 86:6230-6234 (1989)) or oligonucleotide arrays (Maskos and Southern Nucl Acids Res 21:2269-2270 (1993)), allele-specific PCR (Newton et al. Nucl Acids Res 17:2503-2516 (1989)), mismatch-repair detection (MRD) (Faham and Cox Genome Res 5:474-482 (1995)), binding of MutS protein (Wagner et al. Nucl Acids Res 23:3944-3948 (1995)), denaturing-gradient gel electrophoresis (DGGE) (Fisher and Lerman et al. Proc. Natl. Acad. Sci. U.S.A. 80:1579-1583 (1983)), single-strand-conformation-polymorphism detection (Orta et al. Genomics 5:874-879 (1983)), RNAase cleavage at mismatched base-pairs (Myers et al. Science 230:1242 (1985)), chemical (Cotton et al. Proc. Natl. Acad. Sci. U.S.A. 85:4397-4401 (1988)) or enzymatic (Youil et al. Proc. Natl. Acad. Sci. U.S.A. 92:87-91 (1995)) cleavage of heteroduplex DNA, methods based on allele specific primer extension (Syvänen et al. Genomics 8:684-692 (1990)), genetic bit analysis (GBA) (Nikiforov et al. Nucl Acids Res 22:4167-4175 (1994)), the oligonucleotide-ligation assay (OLA) (Landegren et al. Science 241:1077 (1988)), the allele-specific ligation chain reaction (LCR) (Barrany Proc. Natl. Acad. Sci. U.S.A. 88:189-193 (1991)), gap-LCR (Abravaya et al. Nucl Acids Res 23:675-682 (1995)), radioactive and/or fluorescent DNA sequencing using standard procedures well known in the art, and peptide nucleic acid (PNA) assays (Orum et al., Nucl. Acids Res. 21:5332-5356 (1993); Thiede et al., Nucl. Acids Res. 24:983-984 (1996)).

In addition to the genotypes defined by the polymorphisms of the invention, as described in co-pending PCT application WO 96/35802 published November 14, 1996, genotypes characterized by the presence of the alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98 (denoted 3321-1:197 therein); 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170 (denoted 4072-2:148 therein); 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-2:159; 68-1:167; 241-

5:108; 241-29:113; 373-8:151; and 373-29:113, alleles D6S258:199, D6S265:122, D6S105:124, D6S306:238, D6S464:206; and D6S1001:180, and/or alleles associates with the HHP-1, the HHP-19 or HHP-29 single base-pair polymorphisms can also be used to assist in the identification of an individual whose genome contains 24d1 and/or 24d2. For example, the assessing step can be performed by a process which comprises subjecting the DNA or RNA to amplification using oligonucleotide primers flanking a polymorphism of Table 1, and oligonucleotides flanking 24d1 and/or 24d2, oligonucleotide primers flanking at least one of the base-pair polymorphisms HHP-1, HHP-19, and HHP-29, oligonucleotide primers flanking at least one of the microsatellite repeat alleles, or oligonucleotide primers for any combination of polymorphisms or microsatellite repeat alleles thereof.

Oligonucleotides useful in diagnostic assays are typically at least 8 consecutive nucleotides in length, and may range upwards of 18 nucleotides in length to greater than 100 or more consecutive nucleotides. Such oligonucleotides can be derived from either the genomic DNA of Figure 8 or 9, or cDNA sequences derived therefrom, or may be synthesized.

Additionally, the proteins encoded by such cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

E. General Methods

The nucleic acid compositions of this invention, whether RNA, cDNA, genomic DNA, or a hybrid of the various combinations, may be isolated from natural sources, including cloned DNA, or may be synthesized *in vitro*. The nucleic acids claimed may be present in transformed or transfected whole cells, in a transformed or transfected cell lysate, or in a partially purified or substantially pure form.

Techniques for nucleic acid manipulation of the nucleic acid sequences of the invention such as subcloning nucleic acid sequences encoding polypeptides into expression vectors, labeling probes, DNA hybridization, and the like are described generally in Sambrook *et al.*, Molecular Cloning - a Laboratory Manual (2nd Ed.), Vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, (1989), which is incorporated herein by reference. This manual is hereinafter referred to as "Sambrook *et al.*"

There are various methods of isolating the nucleic acid sequences of the invention. For example, DNA is isolated from a genomic or cDNA library using labeled oligonucleotide probes having sequences complementary to the sequences disclosed herein. Such probes can be used directly in hybridization assays. Alternatively probes can be designed for use in amplification techniques such as PCR.

To prepare a cDNA library, mRNA is isolated from tissue such as heart or pancreas, preferably a tissue wherein expression of the gene or gene family is likely to occur. cDNA is prepared from the mRNA and ligated into a recombinant vector. The vector is transfected into a recombinant host for propagation, screening and cloning. Methods for making and screening cDNA libraries are well known. See Gubler, U. and Hoffman, B.J. Gene 25:263-269 (1983) and Sambrook *et al.*

For a genomic library, for example, the DNA is extracted from tissue and either mechanically sheared or enzymatically digested to yield fragments of about 12-20 kb. The fragments

are then separated by gradient centrifugation from undesired sizes and are constructed in bacteriophage lambda vectors. These vectors and phage are packaged *in vitro*, as described in Sambrook, *et al.* Recombinant phage are analyzed by plaque hybridization as described in Benton and Davis, Science 196:180-182 (1977). Colony hybridization is carried out as generally described in

5 M. Grunstein *et al.* Proc. Natl. Acad. Sci. USA, 72:3961-3965 (1975).

DNA of interest is identified in either cDNA or genomic libraries by its ability to hybridize with nucleic acid probes, for example on Southern blots, and these DNA regions are isolated by standard methods familiar to those of skill in the art. See Sambrook, *et al.*

In PCR techniques, oligonucleotide primers complementary to the two 3' borders of

10 the DNA region to be amplified are synthesized. The polymerase chain reaction is then carried out using the two primers. See PCR Protocols: a Guide to Methods and Applications (Innis, M, Gelfand, D., Sninsky, J. and White, T., eds.), Academic Press, San Diego (1990). Primers can be selected to amplify the entire regions encoding a full-length sequence of interest or to amplify smaller DNA segments as desired.

15 PCR can be used in a variety of protocols to isolate cDNA's encoding a sequence of interest. In these protocols, appropriate primers and probes for amplifying DNA encoding a sequence of interest are generated from analysis of the DNA sequences listed herein. Once such regions are PCR-amplified, they can be sequenced and oligonucleotide probes can be prepared from sequence obtained.

20 Oligonucleotides for use as primers or probes are chemically synthesized according to the solid phase phosphoramidite triester method first described by Beaucage, S.L. and Carruthers, M.H., Tetrahedron Lett., 22(20):1859-1862 (1981) using an automated synthesizer, as described in Needham-VanDevanter, D.R., *et al.*, Nucleic Acids Res. 12:6159-6168 (1984). Purification of oligonucleotides is by either native acrylamide gel electrophoresis or by anion-exchange HPLC as

25 described in Pearson, J.D. and Regnier, F.E., J. Chrom., 255:137-149 (1983). The sequence of the synthetic oligonucleotide can be verified using the chemical degradation method of Maxam, A.M. and Gilbert, W., in Grossman, L. and Moldave, D., eds. Academic Press, New York, Methods in Enzymology 65:499-560 (1980).

1. Expression

30 Once DNA encoding a sequence of interest is isolated and cloned, one can express the encoded proteins in a variety of recombinantly engineered cells. It is expected that those of skill in the art are knowledgeable in the numerous expression systems available for expression of DNA encoding a sequence of interest. No attempt to describe in detail the various methods known for the expression of proteins in prokaryotes or eukaryotes is made here.

35 In brief summary, the expression of natural or synthetic nucleic acids encoding a sequence of interest will typically be achieved by operably linking the DNA or cDNA to a promoter (which is either constitutive or inducible), followed by incorporation into an expression vector. The vectors can be suitable for replication and integration in either prokaryotes or eukaryotes. Typical expression vectors contain transcription and translation terminators, initiation sequences, and

40 promoters useful for regulation of the expression of polynucleotide sequence of interest. To obtain

high level expression of a cloned gene, it is desirable to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. The expression vectors may also comprise generic expression cassettes containing at least one independent terminator sequence, sequences permitting replication of the plasmid in both eukaryotes and prokaryotes, i.e., shuttle vectors, and selection markers for both prokaryotic and eukaryotic systems. See Sambrook *et al.* Examples of expression of ATP-sensitive potassium channel proteins in both prokaryotic and eukaryotic systems are described below.

a. **Expression in Prokaryotes**

A variety of prokaryotic expression systems may be used to express the proteins of the invention. Examples include *E. coli*, *Bacillus*, *Streptomyces*, and the like.

It is preferred to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. Examples of regulatory regions suitable for this purpose in *E. coli* are the promoter and operator region of the *E. coli* tryptophan biosynthetic pathway as described by Yanofsky, C., J. Bacteriol. 158:1018-1024 (1984) and the leftward promoter of phage lambda (P_L) as described by Herskowitz, I. and Hagen, D., Ann. Rev. Genet. 14:399-445 (1980). The inclusion of selection markers in DNA vectors transformed in *E. coli* is also useful. Examples of such markers include genes specifying resistance to ampicillin, tetracycline, or chloramphenicol. See Sambrook *et al.* for details concerning selection markers for use in *E. coli*.

To enhance proper folding of the expressed recombinant protein, during purification from *E. coli*, the expressed protein may first be denatured and then renatured. This can be accomplished by solubilizing the bacterially produced proteins in a chaotropic agent such as guanidine HCl and reducing all the cysteine residues with a reducing agent such as beta-mercaptoethanol. The protein is then renatured, either by slow dialysis or by gel filtration. See U.S. Patent No. 4,511,503.

Detection of the expressed antigen is achieved by methods known in the art as radioimmunoassay, or Western blotting techniques or immunoprecipitation. Purification from *E. coli* can be achieved following procedures such as those described in U.S. Patent No. 4,511,503.

b. **Expression in Eukaryotes**

A variety of eukaryotic expression systems such as yeast, insect cell lines, bird, fish, and mammalian cells, are known to those of skill in the art. As explained briefly below, a sequence of interest may be expressed in these eukaryotic systems.

Synthesis of heterologous proteins in yeast is well known. Methods in Yeast Genetics, Sherman, F., *et al.*, Cold Spring Harbor Laboratory, (1982) is a well recognized work describing the various methods available to produce the protein in yeast.

Suitable vectors usually have expression control sequences, such as promoters, including 3-phosphoglycerate kinase or other glycolytic enzymes, and an origin of replication, termination sequences and the like as desired. For instance, suitable vectors are described in the literature (Botstein, *et al.*, Gene 8:17-24 (1979); Broach, *et al.*, Gene 8:121-133 (1979)).

Two procedures are used in transforming yeast cells. In one case, yeast cells are first converted into protoplasts using zymolyase, lyticase or glucanase, followed by addition of DNA and polyethylene glycol (PEG). The PEG-treated protoplasts are then regenerated in a 3% agar medium under selective conditions. Details of this procedure are given in the papers by J.D. Beggs, Nature (London) 275:104-109 (1978); and Hinnen, a., *et al.*, Proc. Natl. Acad. Sci. U.S.A. 75:1929-1933 (1978). The second procedure does not involve removal of the cell wall. Instead the cells are treated with lithium chloride or acetate and PEG and put on selective plates (Ito, H., *et al.*, J. Bact. 153:163-168 (1983)).

The proteins of the invention, once expressed, can be isolated from yeast by lysing the cells and applying standard protein isolation techniques to the lysates. The monitoring of the purification process can be accomplished by using Western blot techniques or radioimmunoassay or other standard immunoassay techniques.

The sequences encoding the proteins of the invention can also be ligated to various expression vectors for use in transforming cell cultures of, for instance, mammalian, insect, bird or fish origin. Illustrative of cell cultures useful for the production of the polypeptides are mammalian cells. Mammalian cell systems often will be in the form of monolayers of cells although mammalian cell suspensions may also be used. A number of suitable host cell lines capable of expressing intact proteins have been developed in the art, and include the HEK293, BHK21, and CHO cell lines, and various human cells such as COS cell lines, HeLa cells, myeloma cell lines, Jurkat cells, etc. Expression vectors for these cells can include expression control sequences, such as an origin of replication, a promoter (e.g., the CMV promoter, a HSV *tk* promoter or *pgk* (phosphoglycerate kinase) promoter), an enhancer (Queen *et al.* Immunol. Rev. 89:49 (1986)), and necessary processing information sites, such as ribosome binding sites, RNA splice sites, polyadenylation sites (e.g., an SV40 large T Ag poly A addition site), and transcriptional terminator sequences. Other animal cells useful for production of ATP-sensitive potassium channel proteins are available, for instance, from the American Type Culture Collection Catalogue of Cell Lines and Hybridomas (7th edition, (1992)).

Appropriate vectors for expressing the proteins of the invention in insect cells are usually derived from the SF9 baculovirus. Suitable insect cell lines include mosquito larvae, silkworm, armyworm, moth and *Drosophila* cell lines such as a Schneider cell line (See Schneider J. Embryol. Exp. Morphol. 27:353-365 (1987)).

As indicated above, the vector, e.g., a plasmid, which is used to transform the host cell, preferably contains DNA sequences to initiate transcription and sequences to control the translation of the protein. These sequences are referred to as expression control sequences.

As with yeast, when higher animal host cells are employed, polyadenylation or transcription terminator sequences from known mammalian genes need to be incorporated into the vector. An example of a terminator sequence is the polyadenylation sequence from the bovine growth hormone gene. Sequences for accurate splicing of the transcript may also be included. An example of a splicing sequence is the VP1 intron from SV40 (Sprague, J. *et al.*, J. Virol. 45: 773-781 (1983)).

Additionally, gene sequences to control replication in the host cell may be incorporated into the vector such as those found in bovine papilloma virus type-vectors.

Saveria-Campo, M., 1985, "Bovine Papilloma virus DNA a Eukaryotic Cloning Vector" in DNA Cloning Vol. II a Practical Approach Ed. D.M. Glover, IRL Press, Arlington, Virginia pp. 213-238.

5 The host cells are competent or rendered competent for transformation by various means. There are several well-known methods of introducing DNA into animal cells. These include: calcium phosphate precipitation, fusion of the recipient cells with bacterial protoplasts containing the DNA, treatment of the recipient cells with liposomes containing the DNA, DEAE dextran, electroporation and micro-injection of the DNA directly into the cells.

10 The transformed cells are cultured by means well known in the art (Biochemical Methods in Cell Culture and Virology, Kuchler, R.J., Dowden, Hutchinson and Ross, Inc., (1977)). The expressed polypeptides are isolated from cells grown as suspensions or as monolayers. The latter are recovered by well known mechanical, chemical or enzymatic means.

2. Purification

15 The proteins produced by recombinant DNA technology may be purified by standard techniques well known to those of skill in the art. Recombinantly produced proteins can be directly expressed or expressed as a fusion protein. The protein is then purified by a combination of cell lysis (e.g., sonication) and affinity chromatography. For fusion products, subsequent digestion of the fusion protein with an appropriate proteolytic enzyme releases the desired polypeptide.

20 The polypeptides of this invention may be purified to substantial purity by standard techniques well known in the art, including selective precipitation with such substances as ammonium sulfate, column chromatography, immunopurification methods, and others. See, for instance, R. Scopes, Protein Purification: Principles and Practice, Springer-Verlag: New York (1982), incorporated herein by reference. For example, in an embodiment, antibodies may be raised to the proteins of the invention as described herein. Cell membranes are isolated from a cell line expressing the recombinant protein, the protein is extracted from the membranes and immunoprecipitated. The proteins may then be further purified by standard protein chemistry techniques as described above.

3. Antibodies

30 As mentioned above, antibodies can also be used for the screening of polypeptide products encoded by the polymorphic nucleic acids of the invention. In addition, antibodies are useful in a variety of other contexts in accordance with the present invention. Such antibodies can be utilized for the diagnosis of HH and, in certain applications, targeting of affected tissues.

Thus, in accordance with another aspect of the present invention a kit is provided that is suitable for use in screening and assaying for the presence of polypeptide products encoded by the polymorphic nucleic acids of the invention by an immunoassay through use of an antibody which specifically binds to polypeptide products encoded by the polymorphic nucleic acids of the invention in combination with a reagent for detecting the binding of the antibody to the gene product.

35 Once hybridoma cell lines are prepared, monoclonal antibodies can be made through conventional techniques of priming mice with pristane and interperitoneally injecting such mice with the hybrid cells to enable harvesting of the monoclonal antibodies from ascites fluid.

40 In connection with synthetic and semi-synthetic antibodies, such terms are intended to cover antibody fragments, isotype switched antibodies, humanized antibodies (mouse-human, human-

mouse, and the like), hybrids, antibodies having plural specificities, fully synthetic antibody-like molecules, and the like.

This invention also embraces diagnostic kits for detecting DNA or RNA comprising a polymorphism of Table 1 in tissue or blood samples which comprise nucleic acid probes as described herein and instructional material. The kit may also contain additional components such as labeled compounds, as described herein, for identification of duplexed nucleic acids.

The following examples are provided to illustrate the invention but not to limit its scope. Other variants of the invention will be readily apparent to one of ordinary skill in the art and are encompassed by the appended claims.

10 F. EXPERIMENTAL EXAMPLES

1. Megabase transcript map

In these studies direct selection, exon-trapping, and genomic sample sequencing were used to generate a transcript map of a 1 megabase region approximately 8.5 megabases telomeric to HLA-A in the vicinity of HFE. This region 6p21.3 was flanked by the genetic markers D6S2242 and D6S2241. The starting material for these experiments was a 1 megabase YAC labeled y899g1 and a bacterial clone contig of this region (Feder *et al.* Nature Genetics 13:399-408 (1996)). These techniques and other methods used in the study are outlined below.

a. Direct Selection (DS)

Poly A⁺ RNA from human fetal brain, liver and small intestine (Clontech, Palo Alto, CA) were converted into cDNA using random primers and a Superscript cDNA synthesis kit (Life Technologies, Gaithersburg, MD). The cDNA was digested with Mbo I and ligated to cDNA Mbo I linker-adaptors. Unligated linker-adaptor were removed by passage through cDNA spun columns (Pharmacia, Piscataway, NJ). The 5 ng of each of the ligated cDNAs were amplified using the cDNA Mbo I-S primer (5'-CCTGATGCTCGAGTGAATTC-3'). The amplified products were purified on S-400 spin columns (Pharmacia, Piscataway, NJ), ethanol precipitated and resuspended at 1 mg/ml in TE. Gel-purified yac899g1 (Centre d'Etude du Polymorphisme Humain) was processed as described by Morgan *et al.* (Nucl. Acids Res. 20:5173-5179 (1992)). The cDNAs were mixed in equal molar amounts for a total of 3 mg, and blocked with a mixture of 4 mg Cot-1 DNA (Life Technologies, Gaithersburg, MD), and a cocktail of Sau 3A-digested ribosomal and five different histone DNAs. The blocked cDNAs were hybridized to biotinylated yac899g1 DNA and streptavidin capture was carried out as described by Morgan *et al.* (*ibid*). After the second round of selection, the eluted cDNAs were amplified using the cDNA Mbo I-S primer which included a (CUA)₄ repeat at the 5' end to facilitate cloning into a version of pSP72 (Promega, Madison, WI) constructed for use with uracil-DNA glycosylase cloning (UDG, Life Technologies, Gaithersburg, MD). Recombinants were transformed in DH5 α , 1000 clones picked into a 96 well format, and clones prepped for DNA sequencing using AGTC boiling 96-well mini-prep system (Advance Genetic Technologies, Gaithersburg, MD).

Four hundred and sixty five clones were sequenced and the resulting data searched by BLAST (Altschul *et al.* J. Mol. Biol. 215:403-410 (1990)). Those clones representing repetitive, bacterial, yeast, mitochondrial and histone sequences were eliminated from further considerations. The remaining sequences were then searched for overlaps and assembled into 108 unique DS contigs.

The number of clones per DS contig varied between 1 to 22 with the length of each contig ranging from 250bp to 850 bp. Small sequence-tag-sites PCR assays were developed for each DS contig and two experiments were carried out concomitantly; mapping each DS contig back to the bacterial clone contig of the region and testing for the presence of each DS contig in cDNA libraries. Overall, 86 or 80% of the DS contigs mapped back to the region and were found to be in cDNA libraries. The number of 80% mapping to the region was probably an underestimate of the fidelity of the direct-selection since PCR assays which cross exon-intron boundaries would be expected to fail or give larger size products, thereby being scored negative.

b. Exon-Trapping

CsCl-purified genomic P1 (Genome Systems), BAC (Research Genetics) and PAC (Genome Systems) DNAs were digested with BamHI, Bgl II, Pst I, Sac I and Xho I and 125 ng of each digest ligated into 500 ng pSPL3 (Church *et al.* Nature Genetics 6:98-105 (1994)) (Life Technologies, Gaithersburg, MD) digested with the appropriate restriction enzyme and phosphatased with calf intestinal alkaline phosphatase (USB, Cleveland, OH). One tenth of the ligation was used to transform XL1-Blue MRF⁺ cells (Stratagene, La Jolla, CA) by electroporation. Nine tenths of the electroporation was used to inoculate 10 ml of LB + 100µg/ml of carbenicillin and after overnight growth, DNA was prepared using Qiagen Q-20 tips (Qiagen GmbH, Hilden Germany). The remaining one tenth was plated on LB + 100 µg/ml carbenicillin plates to evaluate the efficiency on cloning and to test individual clones for the presence of single inserts. COS-7 cells were seeded overnight at a density of 1.4 x10⁵/well in 6 well dishes. One µg of DNA was transfected using 6ml of Lipofect-Ace. Cytoplasmic RNA was isolated 48 hr post-transfection. RT-PCR was carried out as described by Church *et al.* (*ibid*) using commercially available reagents Life Technologies, Gaithersburg, MD). The resulting CUA-tailed PCR fragments for each restriction digested bacterial clone were pooled and UDG cloned into pSP72-U (a derivative of pSP72). The DNA was transformed in DH5α and the cells plated onto nylon membranes. After overnight growth, duplicates were made and the DNA hybridized to ³²P end-labeled oligos designed to detect various background products associated with the pSPL3 vector. One set of filters was hybridized with the following gel-purified oligos in 6X SSC aqueous hybridization solution at 42° C:

vector-vector splicing	5'-CGACCCAGCAACCTGGAGAT-3'
cryptic donor-1021	5'-AGCTCGAGCGGCCGCTGCAG-3'
cryptic donor-1134	5'-AGACCCCAACCCACAAGAAG-3'

The filters were washed twice in 6X SSC, 10 mM sodium pyrophosphate (NaPPi) at 60°C, 30 mins.

After overnight autoradiography, non-hybridizing clones were picked and grown in 250 µl of LB + 100µg/ml of carbenicillin in 96 well mini-rack tubes. The samples were analyzed by PCR using the secondary PCR primers supplied in the kit (Life Technologies, Gaithersburg, MD) and those clones with inserts greater than 200 bp were selected for sequencing.

Ninety-six exon traps per bacterial clone were sequenced for a total of 768 reactions and the resulting data analyzed by BLAST. In addition, each potential exon was searched against a database of the 86 DS contigs to eliminate redundant sequences. PCR assays were developed for

each of the potential exons and they were tested for their presence in cDNA libraries. A total of 48 potential exons remained after these screening steps.

c. Sample Sequencing

A minimal set of bacterial clones chosen to cover y899g1 were prepped with the Qiagen Maxi-Prep system and purified on CsCl. Ten micrograms of DNA from each bacterial clone was sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into electrocompetent DH5 α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well AGCT system and end-sequenced with oligo MAP1 using standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGCTACAAT. The MAP1 sequences were screened locally with the BLAST algorithm against all available public databases. All sequence identities were catalogued and cross referenced to the DS and exon-trapped databases.

A total of 3794 end sequence reactions were run to achieve the theoretical 1X coverage. Eighty-five percent of these sequences contained non-bacterial non-vector inserts. An additional 1060 end sequence reactions were run from the opposite end of the cloning vector to augment the sequence coverage and to prepare for contigging across selected regions. BLAST searches to all publicly available databases identified 12 histone genes and 74 unique expressed sequence fragments (ESF). The ESF represent a collection of ESTs and other expressed sequence fragments that were selected due to their sequence identity over a significant portion of genomic DNA. The ESF were cross referenced against the DS and exon-trapped databases to eliminate redundancies. 58 unique ESF remained, representing 39 distinct clones. Included in these ESF are 5 sequences homologous to histone genes.

Table 3. EST's found by Sample Sequencing Large Insert Bacterial Clones

Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A + signal ¹	Genomic poly (A) _{on}	cDNA Homology
EST03556	pc157c3	na ²	none ³	+	-	cDNA 28
ym33f11	pc157c3	ZNF	na	na	na	
EST04698	pc157c3	na	NSH ⁴	+	-	
EST04812	pc157c3	na	NSH	-	-	
yb89b08	pc157c3	NSH	na	na	na	
yd88g11	pc157c3	na	nsh	+	-	
yj49b01	pc157c3	NSH	na	na	na	
yv81d05	pc157c3	HG17 Human	NSH	+	-	cDNA 30
yg57h09	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21
yq23d08	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21

	Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A+ signal ¹	Genomic poly (A) _{0.8}	cDNA Homology
30	yo65f06	p196e20	NSH	na	na	na	cDNA 29
	yv88c09	p196e20	BUTYBOVIN	na	na	na	cDNA 29
	yd17d06	p196e20	NSH	na	na	na	cDNA 23
	ye25g03	p196e20	BUTYBOVIN	NSH	na	na	cDNA 44
5	ys04h08	pc45p21	NSH	NSH	+	-	cDNA 44
	yn01c05	p196e20	BUTYBOVIN	na	na	na	cDNA 32
	YG78F10	PC45P21	NSH	NSH	na	na	
	yh54f11	p196e20	none	NSH	-	-	
	ys05b08	pc157c3	NSH	Alu	-	+	
10	ybl2h11	b132a12	NSH	Histone H3.1	-	-	
	HSC2EE082	b132a12	na	NSH	+	-	
	HUM160h11b	b132a12	none	na	na	na	
	yg04f09	b132b12	Line element	Alu	-	+	
	yd37d11	b132a12	NSH	Alu	-	+	
15	ym29g03	b132a12	Histone H2A	NSH	+	-	cDNA 37
	yi77b02	b132a12	NSH	NSH	-	-	cDNA 37
	yh76b05	b132a12	NSH	Alu	-	-	
	yu98e02	b132a12	NSH	Alue	-	+	
	yd72h12	b132a12	Alu	NSH	+	+	
20	yd19d03	pc222k22	Histone H2B.1	NSH	+	-	
	ye98g01	b132a12	NSH	NSH	+	-	cDNA
	yi61f07	b132a12	NSH	NSH	-	+	
	ESTOS340	b3e17	na	Alu	-	+	
	yd35d05	pc222k22	NSH	NSH	-	+	
25	yc52a05	pc75L14	NSH	na	na	na	
	yd84a05	pc75L14	none	none	-	? ⁵	
	yr42a05	pc75L14	NaPi transport	none	+	-	cDNA 22B
	yd83h08	b20h20	NSH	none	+	-	
	ye38c09	b20h20	NSH	Alu	-	+	
30	yp74c05	b20h20	NaPi transport	Alu	? ⁶	na	

Bracketed area is the critical region

1	Signal of ATAAA or ATTAA	4	No Significant Homologies
2	Not available	5	3' splice that is not on contig
35	3 "NONE" reported by blast	6	Poor EST sequence

d. cDNA library screening

Superscript plasmid cDNA libraries, brain, liver and testis, were purchased from Life Technologies, Gaithersburg, MD. Colonies were plated on Hybond N filters (Am rsham) using

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standard techniques. Insert probes from DS, exons and EST (I.M.A.G.E. clones; Genome Systems) were all isolated by PCR followed by purification in low-melting point agarose gels (Seak m). The DNAs were labeled in gel using the Prime-it II kit (Stratagene, La Jolla, CA). Small exon probes were labeled using their respective STS PCR primers instead of random primers. Up to 5 different probes were pooled in a hybridization. Filters were hybridized in duplicate using standard techniques. Putative positives were screened by PCR using the probe's STSs to identify clones. Inserts from positive clones were subcloned in pSP72 and sequenced.

e. Northern blots and RT-PCR analysis

Multiple tissue northern blots were purchased from Clontech and hybridized according to the manufacturer's instructions. RT-PCR was carried out on random primed first strand cDNA made from poly A+ RNA (Clontech) using AmpliTaq Gold (Perkin-Elmer). Control reactions were performed on RNA samples processed in the absence of reverse transcriptase to control for genomic DNA contamination.

f. Genomic Sequencing

The MAP1 sequences from the bacterial clones b132a2, 222K22, and 75L14 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. These sequences were also screened with the BLAST algorithm and all novel sequence identities were noted. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently mated with JGM (Strathman *et al.* P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the 3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all bacterial clones to generate complete sequence across the region. The genomic sequence was analyzed with the BLAST nucleotide and protein homology algorithms and the GRAIL 1.2 software to identify novel open reading frames (ORF) for gene finding.

g. Discussion

A compilation of 174 ESF led to the construction of an expressed sequence map of the region that served as the framework for the isolation of full-length cDNAs (Figure 1). (The map shows the subset of ESF that were actually mapped). Probes were developed for 82 best ESFs which appeared to be derived from the coding portions of cDNAs and the appropriate cDNA libraries were screened. This led to the isolation of 19 cDNAs, 17 of which represented novel sequences. 70 of the 174 ESF were included in the cDNAs isolated (40%). 36 probes failed to produce any clones even after repeated screening of several libraries. 51 ESF which were not accounted for in the cDNAs

cloned were not used in any screen. Therefore, it is possible that some additional genes within this 1 megabase region may have escaped detection.

A list of these cDNAs cloned and a comparison of the methods used to find them is presented in Table 4. Direct selection found 14 out of the 18 cDNAs contained within the boundaries of the YAC used in the experiment. Exon trapping found 15 out of the 19 cDNAs contained within the boundaries of the large insert bacterial clone contig. Sample sequencing identified 11 genes that had corresponding ESTs in the public database.

Table 4. Comparison of gene finding methods

	Bacterial Clone	CDNA #	Homology	EST	DS	Exon Trap
	157c	28	zinc finger	EST03556	2	1
	157c3	30	nonhistone	yv81d05 yvh07a10	1	none
	157c3	46	ORF	yd88g11	1	
15	157c3	20	BT	none	none	3
	p18696	21	BTF1	yn01G5 yg23d08 yg57h09 yu15h03	4	5
	45p21	32	BTF2	yg78f10 yn01c05	7	3
	45p21	29	BTF3	ye25g03 yo65f06	2	9
	45p21	23	BTF4	yd17d06	4	6
20	45p21	44	BTF5	ys04h08	2	4
	3e17	41	genomic?	none	none	1
	132a2	43	genomic?	none	none	3
	132a2	36	genomic?	none	1	none
	132a2	37	histone 2A	ym29g03 yh87a03	3	none
25	75114	24	MHC class I	ye98g01	1	2
	132a2	39	genomic?	none	none	4
	132a2	27	Ro/SSA	none	3	4
	132a2	22B	NPT1-like	yr42a05 yf09g06	1	7
	20h20	22E	NPT1-like	none	2	5
30	20h20	NPT1	NPT1	yp74c05	N/A	3

As a final approach, a tiling path with overlapping end sequences from the sample sequence database was generated. Each 3 kb clone within the path was shotgun-sequenced using transposable elements as platforms for dual end sequencing. These individual clones were assembled in conjunction with the end sequences from all bacterial clones in the region. The resulting sequence (Figure 2) was analyzed systematically with BLAST homology searches and the Grail 1.2 program to identify novel open reading frames (ORF) and other gene-like structures. The BLAST homology searches did not produce any probes that had not already been identified by sample sequencing. Grail predicted exons for all the genes in the region, but was only able to assemble the histones into any representative form. A detailed analysis of BLAST homology searches to protein databases identified an enticing homology to a zinc alpha 2 glycoprotein approximately 25 kb upstream of HFE, but the lack of a substantial ORF and the presence of a stop codon suggested that it was a pseudogene. Figure 2 shows the positions, the exon and intron structures, and the relative orientation of transcription of novel genes within this region. Also shown are the positions and transcriptional orientations of the histone genes. A total of 12 histone genes were identified in this study.

In an effort to account for the ESTs that did not associate with the characterized genes in the 250 kb region, the genomic sequence around the putative 3' ends were examined for polyadenylation signals to determine whether certain EST sequences may have originated from genomic DNA contamination in the normalized cDNA libraries used in EST generation. The positions of the 14 ESTs found in this region are indicated in Figure 2 to show those associated with the cDNAs cloned and those which did not associate with genomic DNA of obvious coding potential. Four ESTs corresponded to 3 of the 4 cDNAs cloned from the region (Table 2). One EST encoded a histone H2B.1 gene and another was a repetitive element. Of the remaining 8, 6 EST clones were used as probes of cDNA libraries with negative results. Those sequences representing putative 3' ends of cDNA were searched for the presence of poly (A)+ addition signals. Five of the 13 ESTs which had 3' end sequence, had the sequence ATAAA or ATTAA. Five of the remaining 8 ESTs that did not have a poly (A)+ addition signal had genomic encoded stretches of poly (A) near the end of EST sequence and, therefore, may have been created by oligo d(T) priming of contaminating genomic DNA. This analysis was expanded to include all ESTs in the large-insert bacterial contigs with definitive 3' ends. Of the remaining 26, 15 had 3' end sequence and, of these, 8 had poly (A)+ addition signals. Five of these 8 ESTs were associated with the cloned cDNAs. Of the remaining 7 which did not have poly (A)+ addition signals, 4 had genomic encoded stretches of poly (A).

i. Butyrophilin gene family

The human homolog of the bovine butyrophilin gene (BT) was cloned and mapped to approximately 480 kb centromeric to HFE (Figure 1). BT is a transmembrane protein of unknown function which constitutes 40% of the total protein associated with the fat globule of bovine milk (Jack *et al.* J. Biol. Chem. 265:14481-14486 (1990)). A human homolog of BT has recently been cloned by Tayloer *et al.* (Biochem Biophys Acta 1306:1-4 (1996)). The results in this study indicated that BT is a member of a gene family with at least five other members of the family residing in this region (Figure 1). A comparison of these proteins is shown in Figure 3. The proteins were aligned based on their descending order of relatedness and to minimized gaps in the sequence. Each of the five proteins

display varying degrees of homology to BT. BTF1 (cDNA 21), BTF2 (cDNA 32), BTF5 (cDNA 44), and BTF3 (cDNA 29) are 45%, 48%, 46%, and 49%, identical to BT, whereas BTF4 (cDNA 23), which is more similar to BTF3 (cDNA 29), is only 26% identical. This low degree of identity to BT is largely due to a truncation at the carboxyl terminus of the protein. The BTF family falls into two groups: BTF1 and 2 which are more related to each other than to BT or the other BTF members, and BTF5, 3 and 4, which appear to have a common evolutionary origin. The order of these genes on the chromosome suggests that the BT gene has duplicated two times, giving rise to BTF1 and BTF5. Subsequently, it appears likely these two genes experienced further duplication events to give rise to the other members in their groups.

The three major components of BT, the B-G immunoglobulin superfamily domain (containing the V consensus sequence) (Miller *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:4377-4381 (1991)), the transmembrane region, and the B30-2 exon are found in all of these proteins (with the exception of BTF4 (cDNA 23) which lacks the B30-2 exon by virtue of the carboxyl terminal truncation). The exon B30-2 is a previously noted feature of the MHC class 1 region found approximately 200 kb centromeric to the HLA-A gene (Vernet *et al.*, J. Mol. Evol. 37:600-612 (1993)). In addition this exon is found in several genes of diverse function telomeric to HLA-A namely MOG (approximately 200 kb) and RFP (approximately 1 megabase) (Amadou *et al.* Genomics 26:9-20 (1995)).

The levels of the BTF mRNA were analyzed by northern blot analysis (Figure 4A). The expression of the BTF genes fell into two patterns. BTF1 and BTF2 were expressed as a single major transcript of 2.9 kb and one minor transcript of 5.0 kb. These genes were expressed at high levels in all the tissues tested with the exception of the kidney where the expression level was less. The two genes are 90% identical at the DNA sequence level, therefore, it is possible that the signal observed on the northern blots was the result of cross-hybridization and only one of the two genes was actually expressed. To address this possibility RT-PCR experiments were carried out on a panel of different tissues in order to detect possible tissue dependent expression that would suggest that both genes are expressed. Identical, and thus equivocal, results were obtained with both BTF1 and BTF2 amplification (Figure 4B).

The second group of genes, BTF3-5, are expressed as three (BTF5) (Figure 4A) and two (BTF3 and 4) transcripts ranging from 4.0 to 3.3 kb. BTF5 is expressed at moderate levels in all tissues tested with the exception of the kidney where the expression level is less. RT-PCR experiments showed that mRNA from the BTF5 gene can be found in all tissues tested, including the kidney (Figure 4B). Identical results were obtained with primers from the other genes of this group (data not shown). These genes are also 90% identical to each other at the DNA sequence level (but only 58% identical to BTF1 and 2), hence like BTF1 and BTF2, cross-hybridization could account for the similarity in size and patterns on the northern blots and RT-PCR. This might be particularly true for BTF4 which lacks the B30-2 exon but still hybridizes to larger size transcripts like BTF5 and BTF3.

ii. A gene with similarity to 52 kD Ro/SSA auto-antigen

Located approximately 120 kb telomeric to the HFE gene is a gene, RoRet, that has 58% amino acid similarity to the 52 kD Ro/SSA protein, an auto-antigen of unknown function that is frequently recognized by antibodies in patients with systemic lupus and Sjogren's syndrome (Anderson

et al. Lancet 2:456-560 (1961); Clark *et al. J. Immunol.* 102:117-122 (1969)) (Figures 1 and 2). Alignment of the predicted amino acid sequence of this cDNA with that of 52 kD Ro/SSA indicated two features associated with the 52 kD Ro/SSA protein: a putative DNA binding cysteine rich motif (C-X-(I,V)-C-X(11-30)-C-X-H-X-(F,I,L)-C-X(2)-C-(I,L,M)-X(10-18)-C-P-X-C) found at the N terminus
 5 (Freemont *et al. Cell* 64: 483-484 (1991)) and the B30-2 exon found near the carboxyl terminus, are both conserved in RoRet (Figure 5). Northern blot analysis indicated the RoRet gene was expressed as two major transcripts of 2.8 and 2.2 kb and two minor transcripts of 7.1 and 4.4 kb in all of the tissues on the blot at levels reflective of the RNA amounts as determined by β -actin probing (Figure 6A). Using RT-PCR, expression can also be detected in small intestine, kidney liver, and spleen
 10 (Figure 6B).

iii. Two genes with homology to a sodium phosphate transporter

A cDNA for a sodium phosphate transport protein (NPT1) was previously cloned and mapped to 6p21.3 using a somatic cell hybrid panel (Chong *et al. Genomics* 18:355-359 (1993)). NPT1 maps 320 kb telomeric to the HFE gene (Figures 1 and 2). Two additional cDNAs were cloned
 15 which show appreciable homology to NPT1 (Figure 5). These genes, NPT3 and NPT4, mapped 1.5 megabases and 1.3 megabases centromeric to the NPT1 gene (Figure 1). Like NPT1, the gene products of NPT3 and NPT4 were extremely hydrophobic, which may reflect a membrane location. Both proteins gave hydrophilicity profiles which were indistinguishable from NPT1 in this study (data not shown). Northern blot analysis indicated that the two genes have different patterns of expression
 20 (Figure 6C). NPT3 was expressed at high levels as a 7.2 kb transcript predominately in muscle and heart. Lesser amount of the mRNA were also found in brain, placenta, lung, liver and pancreas. RT-PCR analysis indicated that expression of the proper size PCR fragment for NPT3 was clearly absent in fetal brain, bone marrow and small intestine (Figure 6D). A smaller size fragment was detectable in all tissues with the exception of the liver, which may represent evidence for alternative
 25 splicing. Although expression was apparently absent from the kidney by northern blot analysis, it was detectable by RT-PCR. Expression was also noted in the mammary gland, spleen and testis. NPT4, on the other hand, was expressed only in the liver and the kidney as a smear of transcripts approximately 2.6 - 1.7 kb (Figure 6C). RT-PCR confirmed these results, although a small amount of the proper size PCR fragment was also found in the small intestine and testis (Figure 6D). Other
 30 tissues showed amplification, but the fragments were of larger and smaller size than that produced by the cDNA 22E positive control. Hence, these two genes which apparently have the structural characteristics of a sodium phosphate transporter, appeared to be under the control of different regulatory mechanism that lead to differential patterns of expression.

2. Sequencing of 235 kb from a Homozygous Ancestral (Affected) Individual

35 In these studies the entire genomic sequence was determined from an HH affected individual for a region corresponding to a 235,033 bp region surrounding the HFE gene between the flanking markers D6S2238 and D6S2241. The sequence was derived from a human lymphoblastoid cell line, HC14, that is homozygous for the ancestral HH mutation and region. The sequence from the ancestral chromosome (Figure 9) was compared to the sequence of the region in an unaffected
 40 individual (Figure 8) disclosed in copending U.S.S.N. 08/724,394 to identify polymorphic sites. A

subset of the polymorphic alleles so defined were further studied to determine their frequency in a collection of random individuals.

The cell line HC14 was deposited with the ATCC on June 25, 1997, and is designated ATCC CRL-12371.

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a. Cosmid Library Screening

The strategy and methodology for sequencing the genomic DNA for the affected individual was essentially as described in copending U.S.S.N. 08/724,394, hereby incorporated by reference in its entirety. Basically, a cosmid library was constructed using high molecular weight DNA from HC14 cells. The library was constructed in the supercos vector (Stratagene, La Jolla, CA).

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Colonies were replicated onto Biotrans nylon filters (ICN) using standard techniques. Probes from genomic subclones used in the generation of the sequence of the unaffected sequence disclosed in 08/724,394 were isolated by gel electrophoresis and electroporation. Subclones were chosen at a spacing of approximately 20 kb throughout the 235 kb region. The DNA was labeled by incorporation of ³²P dCTP by the random primer labeling approach. Positively hybridizing clones were isolated to purity by a secondary screening step. Cosmid insert ends were sequenced to determine whether full coverage had been obtained, and which clones formed a minimal path of cosmids through the 235 kb region.

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b. Sample Sequencing

A minimal set of cosmid clones chosen to cover the 235 kb region were prepped with the Qiagen Maxi-Prep system. Ten micrograms of DNA from each cosmid preparation were sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 DNA polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into electrocompetent DH5 α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well Qiagen REAL, and the 5' to 3' DNA Prep Kit, and AGCT end-sequenced with oligo MAP1 using standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAT.

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c. Genomic Sequencing

The MAP1 sequences from the cosmid clones HC182, HC187, HC189, HC195, HC199, HC200, HC201, HC206, HC207, and HC212 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently mated with JGM (Strathman et al. P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the

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3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all cosmid clones in the region.

In some regions, the coverage of the genomic sequence by cosmids was incomplete. Any gaps in the sequence were filled by using standard PCR techniques to amplify genomic DNA in those regions and standard ABI dye terminator chemistry to sequence the amplification products.

d. Identification of Polymorphic Sites

The assembled sequence of the cosmid clones in connection with the PCR amplified genomic DNA was compared to the genomic sequence of the unaffected individual using the FASTA algorithm. Numeric values were assigned to the sequenced regions of 1 to 235,303, wherein base 1 refers to the first C in the CA repeat of D6S2238 and base 235,303 is the last T in the GT repeat of D6S2241 of the unaffected sequence (Figure 8). Table 1 lists the differences between the two compared sequences. Note that previously disclosed (Feder et al., Nature Genetics 13:399-408 (1996)) polymorphic sites D6S2238 (base 1), D6S2241 (base 235,032), 24d1 (base 41316), and D6S2239 (base 84841) are not included in the list of new polymorphisms, although they are provided for reference in a footnote to the Table and were observed in the ancestral sequence. In the Table, a single base change such as C-T refers to a C in the unaffected sequence at the indicated base position that occurred as a T in the corresponding position in the affected sequence. Similarly, an insertion of one or more bases, such as TTT in the affected sequence, is represented as "TTT INS" between the indicated bases of the unaffected sequence. A deletion of one or more bases occurring in the affected sequence, such as AAA DEL, is represented as the deletion of the indicated bases in the unaffected sequence.

e. Characterization of Rare Polymorphisms

In this study about 100 of the polymorphisms of Table 1 were arbitrarily chosen for further characterization. Allele frequencies in the general population were estimated by OLA analysis using a population of random DNAs (the "CEPH" collection, J. Dausset et al., Genomics 6(3):575-577 (1990)). These results are provided in Table 2.

One single base pair difference, occurring at base 35983 and designated C182.1G7T/C (an A to G change on the opposite strand) was present in the ancestral chromosome and rare in the random DNAs. This change occurred in a noncoding region of the hemochromatosis gene near exon 7 approximately 5.3 kb from the 24d1 (Cys282Tyr) mutation. OLA was used to genotype 90 hemochromatosis patients for the C182.1G7T/C base pair change. The frequency for C occurring at this position in the patients was 79.4% as compared to 5% in the random DNAs. Eighty-five of the 90 patients assayed contained identical 24d1 and C182.1G7T/C genotypes. Four of the remaining 5 patients were homozygous at 24d1 and heterozygous at C182.1G7T/C; one was heterozygous at 24d1 and homozygous at C182.1G7T/C. The primers used for this analysis were as follows.

PCR primers for detection:

182.1G7.F 5'-GCATCAGCGATTAACCTTCTAC -3'

182.1G7.R 5'-TTGCATTGTGGTGAAATCAGGG -3'

For the detection assay, the biotinylated primers used were as follows.

5 182.1G7.C 5' (b)CTGAGTAATTGTTTAAGGTGC -3'

182.1G7.T 5' (b)CTGAGTAATTGTTTAAGGTGT -3'

The phosphorylated digoxigenin-labeled primer used was:

182.1G7.D 5' (p)AGAAGAGATAGATATGGTGG -3'

10 A further rare single base pair change was detected at 61,465bp. The inheritance pattern of this polymorphism, C195.1H5C/T (a G to A change on the opposite strand), is identical to that of 24d1. The frequency of T occurring at that position (C195.1H5T) observed in a set of 76 patients was 78.5% as compared to 5% in random individuals.

15 PCR primers for detection:

1951H5.3F 5'-GAATGTGACCGTCCCATGAG-3'

1951H5.3R 5'-CAACTGAATATGCAGAAAAAAGTACACC-3'

For the detection assay, the biotinylated primers used were:

1951H5.3.4 5' (b)AGTAGCTGGGACTCACGGTGT-3'

20 1957H5.3.5 5' (b)AGTAGCTGGGACTCACGGTGC-3'

The phosphorylated digoxigenin-labeled primer used was:

1951H5.3.6 5' (p)GCGCCACCACTCCCAGCTCAT-3'

25 These rare alleles are thus preferred surrogate markers for 24d1 and are especially useful in screening assays for the likely presence of 24d1 and/or 24d2.

All publications, patents, and patent applications cited herein are hereby incorporated by reference in their entirety.

WHAT IS CLAIMED IS:

- 1 1. An oligonucleotide comprising at least 8 to about 100 consecutive bases from the
2 sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100
3 consecutive bases includes at least one polymorphic site of Table 1.
- 1 2. The oligonucleotide of claim 1, wherein the polymorphic site is selected from the
2 group consisting of base 35983 or base 61465.
- 1 3. An oligonucleotide pair selected from the sequence of Figure 9 or its complement for
2 amplification of a polymorphic site of Table 1.
- 1 4. An isolated nucleic acid molecule comprising about 100 consecutive bases to about
2 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at
3 least one polymorphic site of Table 1.
- 1 5. The isolated nucleic acid molecule of claim 4, wherein the polymorphic site is selected
2 from the group consisting of base 35983 or base 61465.
- 1 6. The isolated nucleic acid molecule of claim 4, wherein the nucleic acid is selected
2 from the group consisting of cDNA, RNA, or genomic DNA.
- 1 7. A polypeptide encoded by the nucleic acid molecule of claim 4.
- 1 8. An antibody which specifically recognizes the polypeptide of claim 7.
- 1 9. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a haplotype of Table 1,
5 wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the
6 HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the
7 likely presence of the HFE gene mutation in the genome of the individual.
- 1 10. The method of claim 9, wherein the method further comprises assessing the RNA or
2 DNA for the presence of at least one of the polymorphisms 24d1, 24d2, HHP-1, HHP-19, or HHP-29;
3 or microsatellite repeat alleles 19D9:205, 18B4:235, 1A2:239, 1E4:271, 24E2:245, 2B8:206, 3321-
4 1:98, 4073-1:182, 4440-1:180, 4440-2:139, 731-1:177, 5091-1:148, 3216-1:221, 4072-2:170, 950-
5 1:142, 950-2:164, 950-3:165, 950-4:128, 950-6:151, 950-8:137, 63-1:151, 63-2:113, 63-3:169, 65-

6 1:206, 65-2:159, 68-1:167, 241-5:108, 241-29:113, 373-8:151, 373-29:113, D6S258:199, D6S265:122,
7 D6S105:124, D6S306:238, D6S464:206, or D6S1001:180.

1 11. The method of claim 9, wherein the haplotype comprises at least two polymorphic
2 sites of Table 1.

1 12. The method of claim 11, wherein one of the at least two polymorphic sites of Table 1
2 is at base 35983 or 61465.

1 13. The method of claim 11, wherein the haplotype comprises at least three polymorphic
2 sites of Table 1.

1 14. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a genotype defined by a
5 polymorphic allele of Table 1,
6 wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1
7 indicates the likely absence of the HFE gene mutation in the genome of the individual and the
8 presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the
9 individual.

1 15. The method of claim 15, wherein the polymorphic allele occurs in less than about 50%
2 of a random population of individuals.

1 16. The method of claim 15, wherein the polymorphic allele occurs in less than about 25%
2 of a random population of individuals.

1 17. The method of claim 15, wherein the polymorphic allele occurs in less than about 5%
2 of a random population of individuals.

1 18. The method of claim 15, wherein the genotype is C182.1G7C or C195.1H5T.

1 19. A kit comprising one or more oligonucleotides of claim 1.

1 20. A kit comprising at least one oligonucleotide pair of claim 3.

1 21. A culture of lymphoblastoid cells having the designation ATCC CRL-12371.

- 1 22. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF1.
- 1 23. The isolated nucleic acid sequence of claim 23, wherein the nucleic acid is cDNA.
- 1 24. The polypeptide encoded by the isolated nucleic acid sequence of claim 23.
- 1 25. A vector comprising the nucleic acid sequence of claim 23.
- 1 26. A host cell stably transfected with the nucleic acid sequence of claim 23.
- 1 27. An antibody that is specifically immunoreactive with the polypeptide of claim 24.
- 1 28. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF2.
- 1 29. The isolated nucleic acid sequence of claim 28, wherein the nucleic acid is cDNA.
- 1 30. The polypeptide encoded by the isolated nucleic acid sequence of claim 28.
- 1 31. A vector comprising the nucleic acid sequence of claim 28.
- 1 32. A host cell stably transfected with the nucleic acid sequence of claim 28.
- 1 33. An antibody that is specifically immunoreactive with the polypeptide of claim 30.
- 1 34. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF3.
- 1 35. The isolated nucleic acid sequence of claim 34, wherein the nucleic acid is cDNA.
- 1 36. The polypeptide encoded by the isolated nucleic acid sequence of claim 34.
- 1 37. A vector comprising the nucleic acid sequence of claim 34.
- 1 38. A host cell stably transfected with the nucleic acid sequence of claim 34.
- 1 39. An antibody that is specifically immunoreactive with the polypeptide of claim 36.

- 1 40. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF4.
- 1 41. The isolated nucleic acid sequence of claim 40, wherein the nucleic acid is cDNA.
- 1 42. The polypeptide encoded by the isolated nucleic acid sequence of claim 40.
- 1 43. A vector comprising the nucleic acid sequence of claim 40.
- 1 44. A host cell stably transfected with the nucleic acid sequence of claim 40.
- 1 45. An antibody that is specifically immunoreactive with the polypeptide of claim 42.
- 1 46. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF5.
- 1 47. The isolated nucleic acid sequence of claim 46, wherein the nucleic acid is cDNA.
- 1 48. The polypeptide encoded by the isolated nucleic acid sequence of claim 46.
- 1 49. A vector comprising the nucleic acid sequence of claim 46.
- 1 50. A host cell stably transfected with the nucleic acid sequence of claim 46.
- 1 51. An antibody that is specifically immunoreactive with the polypeptide of claim 48.
- 1 52. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-3.
- 1 53. The isolated nucleic acid sequence of claim 52, wherein the nucleic acid is cDNA.
- 1 54. The polypeptide encoded by the isolated nucleic acid sequence of claim 52.
- 1 55. A vector comprising the nucleic acid sequence of claim 52.
- 1 56. A host cell stably transfected with the nucleic acid sequence of claim 52.
- 1 57. An antibody that is specifically immunoreactive with the polypeptide of claim 54.

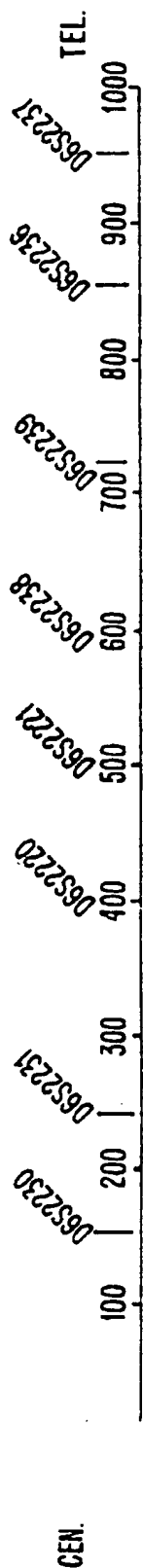
- 1 58. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-4.
- 1 59. The isolated nucleic acid sequence of claim 58, wherein the nucleic acid is cDNA.
- 1 60. The polypeptide encoded by the isolated nucleic acid sequence of claim 58.
- 1 61. A vector comprising the nucleic acid sequence of claim 58.
- 1 62. A host cell stably transfected with the nucleic acid sequence of claim 58.
- 1 63. An antibody that is specifically immunoreactive with the polypeptide of claim 60.
- 1 64. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 RoRet.
- 1 65. The isolated nucleic acid sequence of claim 64, wherein the nucleic acid is cDNA.
- 1 66. The polypeptide encoded by the isolated nucleic acid sequence of claim 64.
- 1 67. A vector comprising the nucleic acid sequence of claim 64.
- 1 68. A host cell stably transfected with the nucleic acid sequence of claim 64.
- 1 69. An antibody that is specifically immunoreactive with the polypeptide of claim 66.
- 1 70. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF1.
- 1 71. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF2.
- 1 72. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF3.
- 1 73. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF4.
- 1 74. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF5.

1 75. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT3.

1 76. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT4.

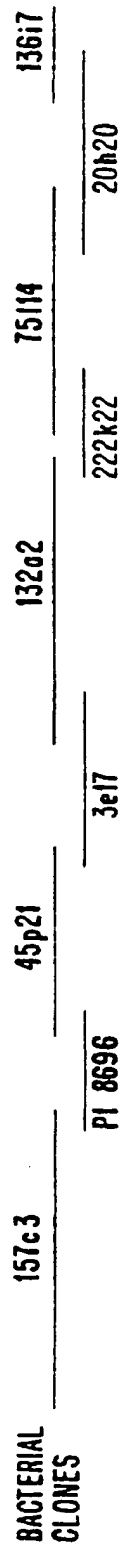
1 77. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of RoRet.

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y899gl

YAC



EXPRESSED
SEQUENCE
FRAGMENTS



cDNAs



ZNF

NON-
HISTONE

BTF

HISTONE HLA-H RoRef

NPT3 NPT4

SEQUENCED REGION

FIG. 1.

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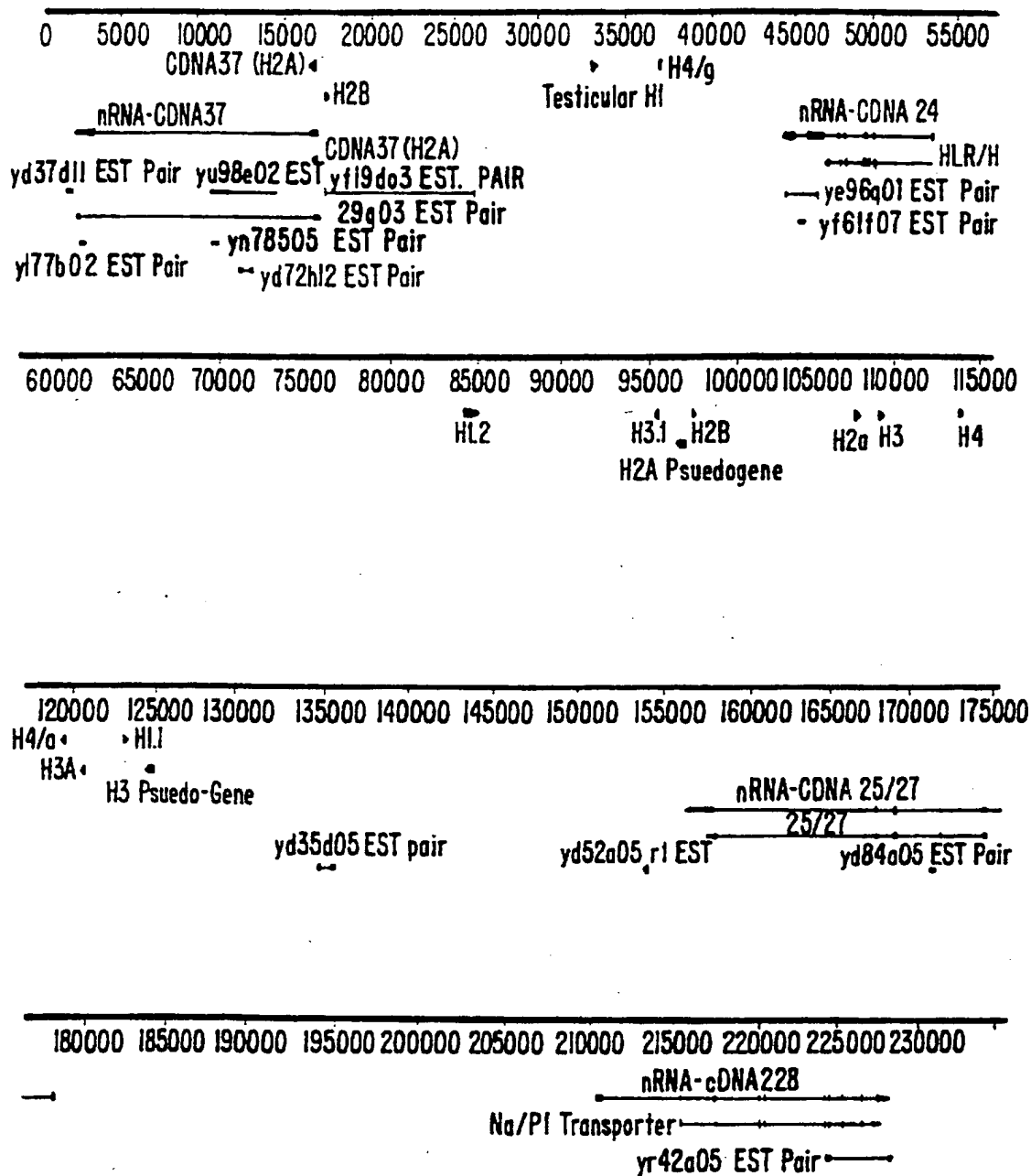


FIG. 2.

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BTF1    MESAAALHFSRPAS----LLLLLLSLCALVSAQFIVVGPTDPILATVGENTTLRCHLSPE
BTF2    MEPAAALHFSLPASLLLLLLLLLLLLSLCALVSAQFTVVGPANPILAMVGENTTLRCHLSPE
BTF5    MKMASFLAFLLLNFR---VCLLLQLLMPHSAQFSVLGPGSGPILAMVGEDADLPCHLFPT
BTF3    MKMASSLAFLLLNHF---VSLFLVQLLTPCSAQFSVLGPGSGPILAMVGEDADLPCHLFPT
BTF4    MKMASSLAFLLLNHF---VSLLLVQLLTPCSAQFSVLGPGSGPILAMVGEDADLPCHLFPT
      *      * * * * * * * * * * * * * * * *

BT      ASAEHLELRWFRKKVSPAVLVHRDGREQAEQMPEYRGRATLVQDGIAGRVALRIRGVR
BTF1    KNAEDMEVRWFRSQFS PAVFVYKGGRETEEQMEEYRGRITFVSKDISRGSVALVIHNIT
BTF2    KNAEDMEVRWFRSQFS PAVFVYKGGRETEEQMEEYRGRITFVSKDINRGSVALVIHNIT
BTF5    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF3    MSAETMELRWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF4    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
      ** * * * * * * * * * * * * * * * *

BT      VSDDG EYTCFFREDGSYEEALVHLKVAALGSDPHISMVQVQENGEICLECTSVGWYPEPOV
BTF1    AQENGTYRCYFQEGRSYDEAILHLVVAGLGSKPLISMRGHEDGGIRLECISRGWYPKPLT
BTF2    AQENGIYRCYFQEGRSYDEAILRLVVAGLGSKPLIEIKAQEDGSIWLECISGGWYPEPLT
BTF5    ASDSGKYL CYFQDGD FYEKALVELKVAALGSDLHVDVKGYKDGGIHLECRSTGWYPQPQI
BTF3    ASDSGKYL CYFQDGD FYEKALVELKVAALGSDLHIEVKGYEDGGIHLECRSTGWYPQPQI
BTF4    ASDSGKYL CYFQDGD FYEKALVELKVAALGSLNHVEVKGYEDGGIHLECRSTGWYPQPQI
      * * * * * * * * * * * * * * * *

BT      QWRTSKGEKFPSTSES RNPDEEGLEFVAASVIIRDSTKNVSCYIQNLLLGQEKKEVEISI
BTF1    VWRDPYGGVAPALKEVSM PDADGLFMVTTAVIIRDKSVRNMSCSINNLLGQKKESVIFI
BTF2    VWRDPYGEVVPALKEVSIADADGLFMVTTAVIIRDKYVRNVSCSVNNTLLGQEKETVIFI
BTF5    QWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSCITRSSLLGLEKTASISI
BTF3    KWSDTKGENIPAVEAPVVADGVGLYAVAASVIMRGSSGGGVSCIIRNSLLGLEKTASISI
BTF4    QWSNAKGENIPAVEAPVVADGVGLYEAASVIMRGSSGEGVSCIIRNSLLGLEKTASISI
      *      *      *      * * * * * * * * * * * * * * * *

BT      PASSLPRLTPWIVAVAV-----ILMVLGLLTIGSIFFTWRLYNER-----
BTF1    PESFMPSVSPCAVALP-----IIVVILMPIAVCIYWINKLQKEKKILSGEK
BTF2    PESFMPSASPWMVALAVILTASPWMVSMTVILAVFIIFMAVSICCIKKLQREKKILSGEK
BTF5    ADPFFRSAQRWIAALAR-----TLPVLLLLLGGAGYFLWQQQEEKKTQFRKK
BTF3    ADPFFRSAQPWIAALAG-----TLPISLLLLLAGASYFLWRQQKEKIALSRET
BTF4    ADPFFRSAQPWIAALAG-----TLPILLLLLLAGASYFLWRQQKEITALSSEI
      *      *      *      * * * * * * * * * * * *

BT      PRER-----RNEFS-----SKERLLEELKWKKATLHA-----
BTF1    EFERETREIALKELEKERVQKEELQVKEKLQEELRWRRTFLHA-----
BTF2    KVEQE-----EKE-----IAQQLQEELRWRRTFLHA-----
BTF5    KREQELREMAWSTMKEQS-----TRVKLLEELRWRSIQYASRGERHSAYNEWKKALF
BTF3    EREREMKEMGYAATEQEIS-----LREKLQEELKWRKIQYMARGEKSLAYHEWKMAF
BTF4    ESEQEMKEMGYAATEREIS-----LRESLQEELKRKKSST-----
      *      *      *      * * * * *

BT      --VDVTLDPDTAHPHFLYEDSKSVRLSDSRQK---LPEKTERFDSWPCVLGRETFTSGR
BTF1    --VDVVLDPDTAHPDLFLSEDRRSVRRCPFRHLGESVPDNPERFDSQPCVLGRESFASGK
BTF2    --ADVVLDPDTAHPDLFLSEDRRSVRRGPYRQR---VPDNPERFDSQPCVLGWESFASGK
BTF5    KPADVILDPKTANPILLVSEDQRSVQRAKEPDQ---LPDNPERFNWHYCVLGCESFISGR
BTF3    KPADVILDPDTANAILLVSEDQRSVQRAEPRD---LPDNPERFEWRYCVLGCENFTSGR
BTF4    -----

BT      HYWEVEVGDRTDWAI GVCRENVMKK-GFDPMT PENGF WAVELY-GNGYWALTPLRTPLPL
BTF1    HYWEVEVENVIEWTVGVCRDSVERK-GEVLLI PQNGFWTLEMH-KGYRAVSSPDRILPL
BTF2    HYWEVEVENVMVWTVGVCRHSVERK-GEVLLI PQNGFWTLEMF-GNQYRALSSPERILPL
BTF5    HYWEVEVGDRKEWHIGVCSKNVQRK-GWVKMT PENGF WTMGLTDGNKYRTLTEPRTNLKL
BTF3    HYWEVEVGDRKEWHIGVCSKNVERKKGWVKMT PENGF WTMGLTDGNKYRALTEPRTNLKL
BTF4    -----

```

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BT	AGPPRRVGIFLDYESGDISFYNMNDGSDIYTFNSVTFSGPLRPFFCLWSSGKKPLTICPI
BTF1	KESLCRVGVFLDYEAGDVSFYNMRDRSHIYTCPRSAFSPVVRPFFRLGC-EDSPIFICPA
BTF2	KESLCRVGVFLDYEAGDVSFYNMRDRSHIYTCPRSAFTVPVRPFFRLGS-DDSPIFICPA
BTF5	PKPPKKVGVFLDYETGDISFYNAVDGSHIHTFLDVSEALYPVFRILTLEPTALSICPA
BTF3	PEPPRKVGIFLDYETGEISFYNATDGSHIYTFPHASFSEPLYPVFRILTLEPTALTICPI
BTF4	-----

BT	ADGPERVTVIANAQDLSKEIPLSPMGEEAPRDADTLHSLIPTQPSQGAP-----
BTF1	LTGANGVTVP-----EEGLTLHRVGTHQSL-----
BTF2	LTGASGVMVP-----EEGLKLHRVGTHQSL-----
BTF5	-----
BTF3	PKEVESSPDPDLVPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNH
BTF4	-----

BT	-----
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BTF2	-----
BTF5	-----
BTF3	KLQARTEALY
BTF4	-----

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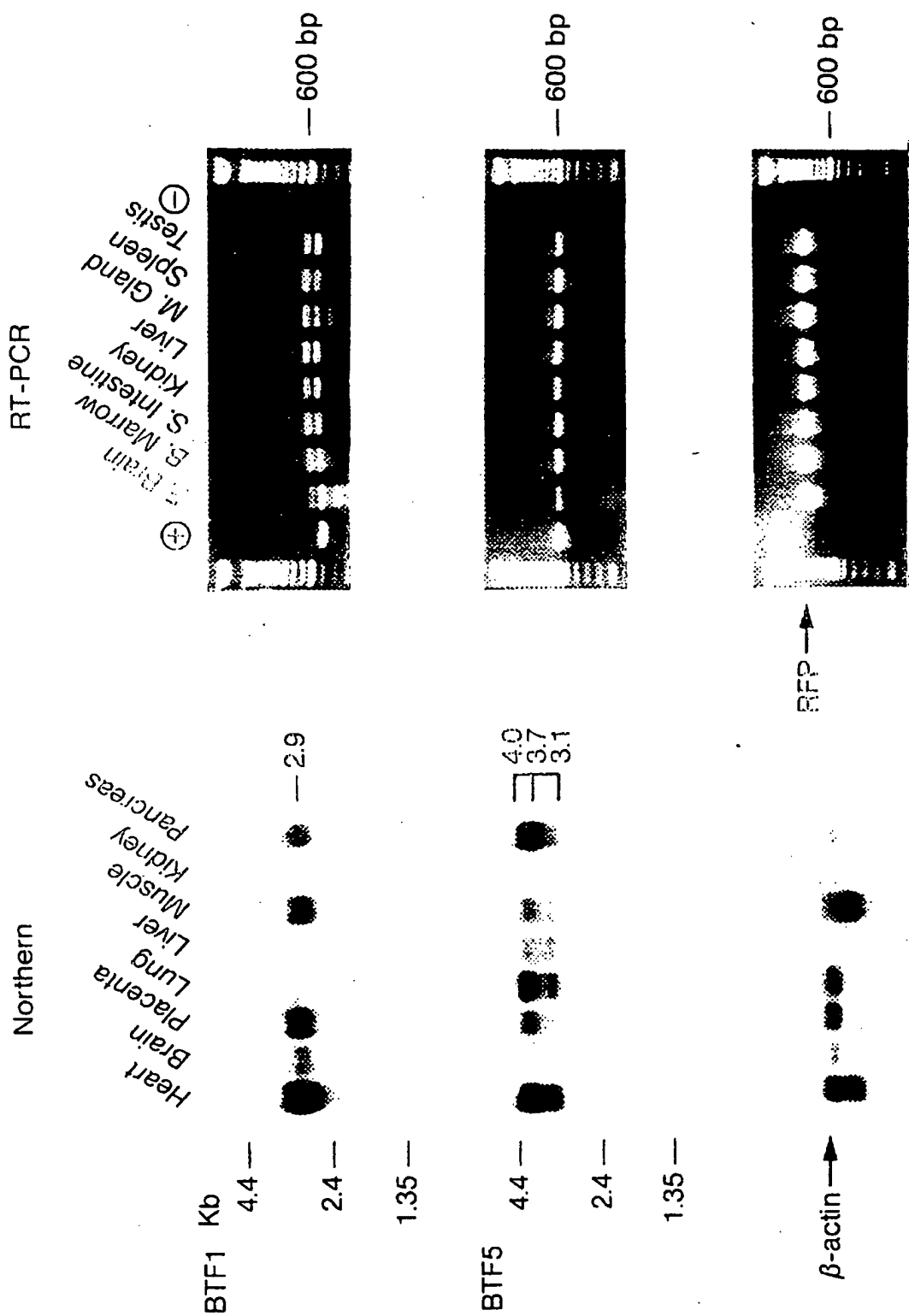


FIG. 4B.

FIG. 4A.

		CYSTEINE-RICH DOMAIN	
52 kD Ro	MASAA RLTMWEEVTCPICLDPFVEPVSVIECGHSFCQECISQVGKGGG-----VCPVCRQRFLLKNLRPNRQLAMMVN		
RoRet	MASTTSTKKMMEEATCSICLSLMTNPVSINCGHSYCHLCITDFFKNPSQQLRQETFCPCQCRAPFFHMDSLRPNKQLGSLIE	***	***
52 kD Ro	NLKKISQEAAREGTQGERCAVHGERLHLFCEKDGKALCWVCAQSKKHRDHAMVPLEEAAQEQEKLQVALGELRRKQELAEKL		
RoRet	ALKKTDQEM-----SCEEHGEQFHLFCEDEGQLICWRCERAPQHKGHTTALVEDVCQGYKEKQLQKAVTKLKQLEDRCTEQ	***	***
52 kD Ro	EVEIAIKRADWKKTVETQKSRIHAEFVQQKNFLVEEEQRQLQELKEKDEREQRLRILGEKEAKLAQQSQALQELISELDRRCHS		
RoRet	KLSTAMRITKWKEKVQIQRQKIRSDFKNLQCFLHEEEKSYLWRLEKEEQQLSRRLRDEAGLGLKSNELKSHILELEKKCCQG	***	***
52 kD Ro	SALELLQEVIIVLERSESNLKDLDITSPELRSVCHVP-----GLKKMLRTCAVHITLDPDTANPWLILSEDRRQVRLGDTQQ		
RoRet	SAQKLLQNVNDTLRSWAVKLETSEAVSLELHTMCNVSKLYFDVKKMLRSHQVSVTLDPDTAHHELILSEDRRQVTRGYTQE	***	***
52 kD Ro	SIPGNEERFDSYPMVLGAQHFGHSGKHYWEVDVTGKEAWDLGVCRDSVRRKGHFLSSKSGFWTIWLWNKQKYEAGTYPQTPL		
RoRet	NQDTSSRRFTAFPCVLGCEGFTSGRRYFEVDVGEGTGWDLGVCMENVQRGTMKQEPQSGFWTLRLCKKKGYVALTSPPTSL	***	***
52 kD Ro	HLQVPPCQVGIFLDYEAGMVSYFNITDHGSLIYSFSECAFTGPLRPFSPGFNDGGKNTAPLTLCPLNIGSQGSTDY		
RoRet	HLHEQPLLVGIFLDYEAGVVSFYNG-NTGCHIFTFPKASFSDTLRPFYFQVQYS-----PLFLPPP--G-----D--	***	***

FIG. 5A.

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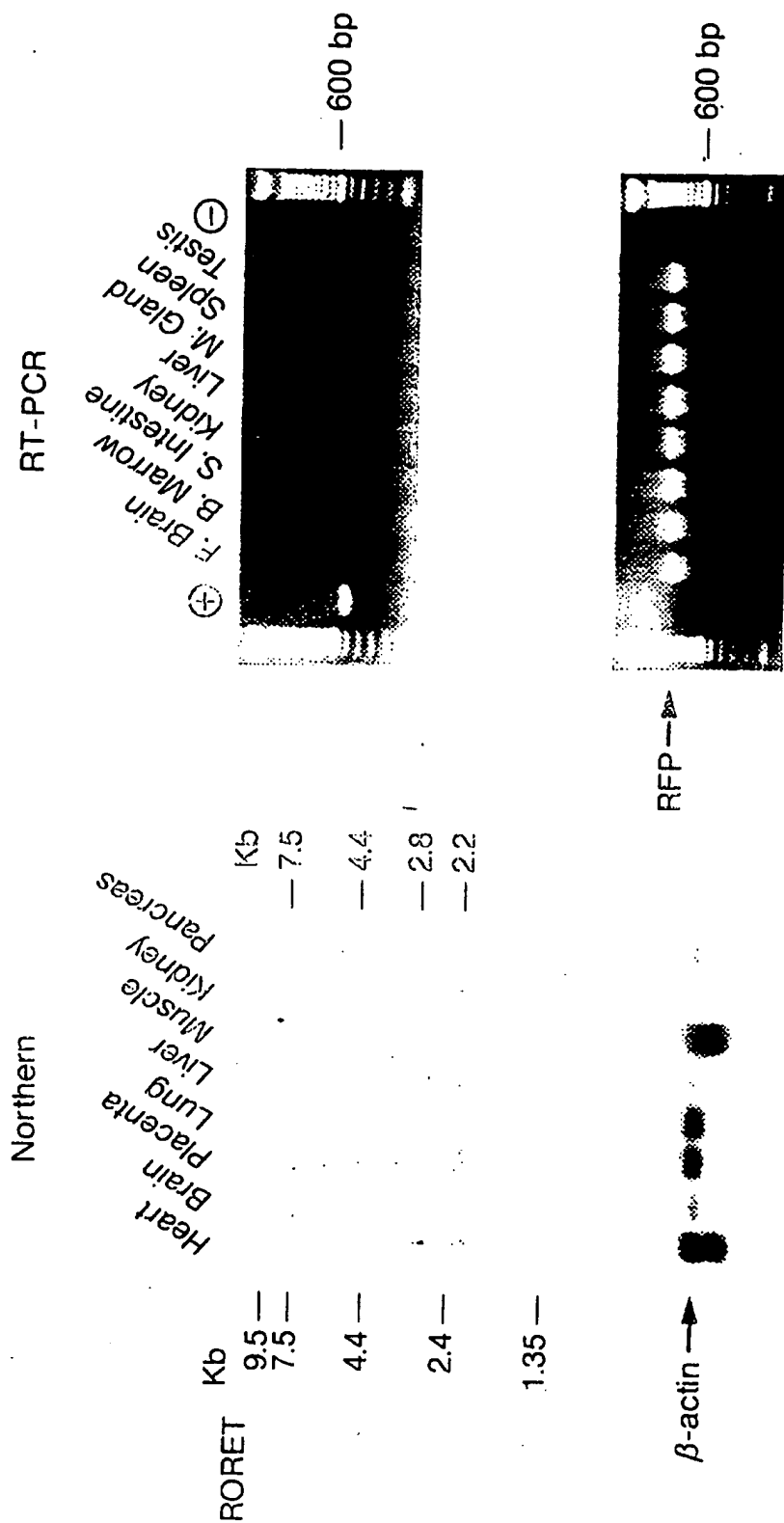


FIG. 6B.

FIG. 6A.

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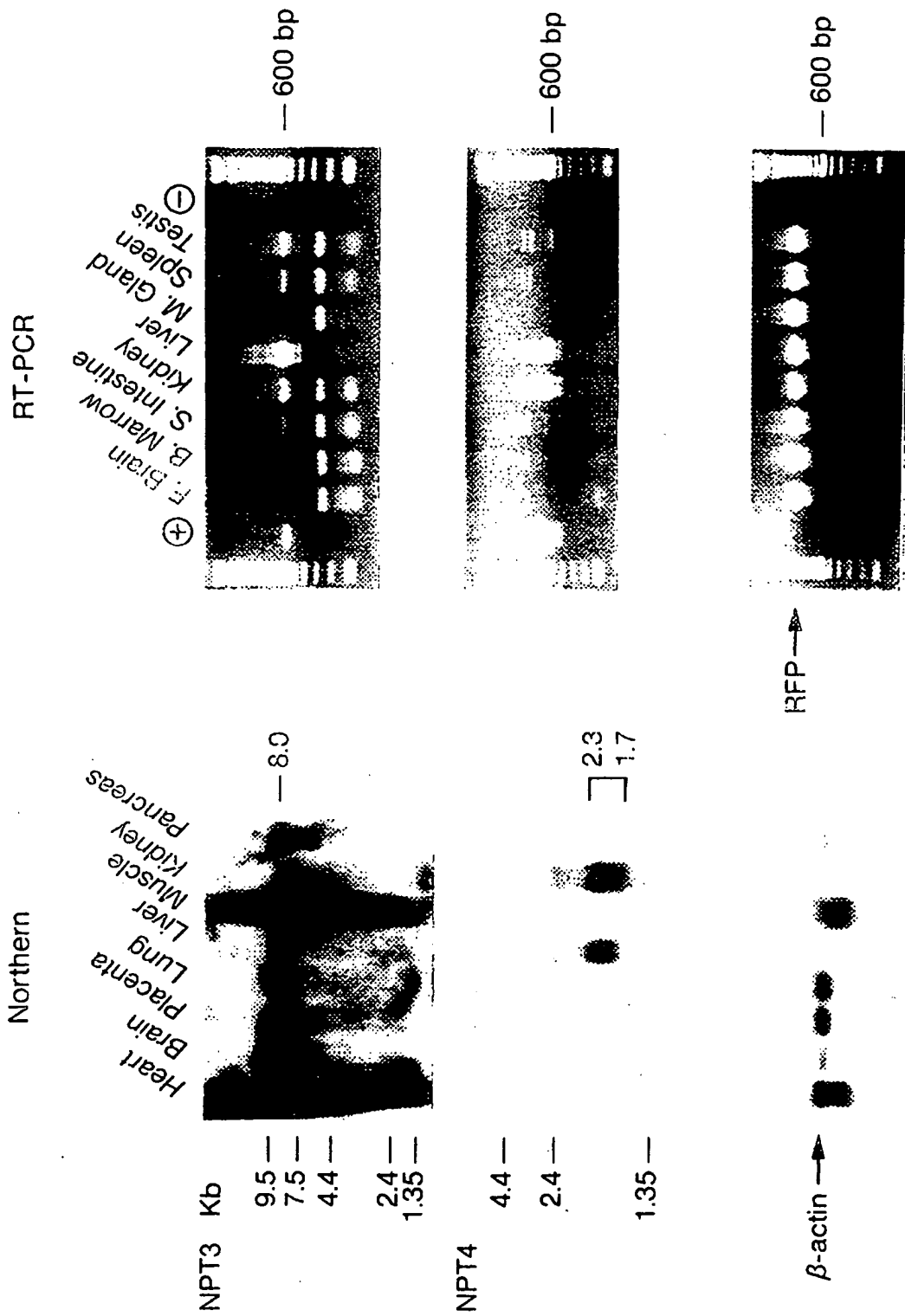


FIG. 6D.

FIG. 6C.

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2281 ATGTTGCCTA GGCTGGTCTC TAACCTCTGA GCTCAAGTGA TCTGCCCTCC TCAGTCTCCC
2341 AAAGTGTTGG GATTACAGGC GTGAAACACT GAGCCTAGCC TGAACAACCA TTTGATAAAG
2401 AGATAATGGG TGTGACCCAA GGATTTAATC AGCCATCTCA GCAGAAGCCA GGAAGAGAGA
2461 TGGGATTATT CCAGCAGAGA CACTGCCAAT TTAAACTAAC GTAGGCAGAG AAAACAGAAA
2521 GGAACAAAGG AAGGTTGTCTG ACTTTTGTAA TTCTATAGAA CAGGATCATA GAGCTACCTG
2581 GCTGTCAATG TGTACTATTC TTTAAGAAAA GGAAAGACTG ACCCACCATA GGCAACTTAC
2641 AAGATCACTA GGGCTGACTC TTTTGTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCCAGGTT CAAGGGATTCT
2761 TCTTGCTTAA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CTTCCCGAGT
2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAACTCCT GACCTCCAGT GATCCATTCT CATTGGCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCCT GGGTGGGACC
3121 CCACCAAACG GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT

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3241   TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTTGG ACTTGATTAG GACACATTAC
3301   ACCTTCCTTC TTTCTATTTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361   CATTGTACCT TAGAAGCATG TAACATTTCT GGTTCACAC GTTCAAAGCT GGAAAGGAAT
3421   TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTTAG ATGATTTTTT
3481   AGATGACACT TTGAACTTTA GAATTGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541   TGGGATGGAA TAATTTTTTT TTTTTTTT AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601   GAGTGCAGTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATTCT
3661   CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721   TTTTTTTTAT TTTAGTAGAG ATGGGGTTTC ACCGTGTTAG CCAGAATGGT CTCGATCTCT
3781   TGACCTTCTG ATCCGCCTGC CTGGCTTCC CAAAGTGCTG GGATTACACG TGTGAGCCAC
3841   CATGCCCCGGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901   GGTCAAGGAC AGAATGTTAT GGACTAAACT GTGTCCCCCA AAATTCATTT ATTAAACCCC
3961   TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTTAG GGGGTACATA AAACATAAGA
4021   TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCTT TACAGAAGAT GAGACACTTA
4081   GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATAA AACACACAGT GAGATGGCAG
4141   CCATCTGTGA GCCAGGAACA GATTCTCACC ATAAACTATG TTGGCACCTT GATCTTAAAC
4201   TTCCAGGCTC CAAAAGTGTG AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGGAAA
4261   AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATTT TGTATGGCA GCCTGAGTAG
4321   GCTAAGACAA TGAAGGATGT GGTAAAACCT TACGTCCCAA CCACATACCA AAGAGGCTGG
4381   AATTTAGCAT GCTTTCTTCT TTCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441   CATGTTGGCT CCTTTACTCT GCCCAAATA CAACTCAAAC AAACAATGT AATATAATA
4501   CATCCAATGA AGTTCTGACA TTTCTTCAAC ATGAGTACAG TAATTCAATG CCAGAGAATT
4561   CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621   TTTATTCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681   GCATTGAGAG GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741   CAACATGGTG AAACCCTGTC TCTACTATAA ATATAAAAT TAGCTGGGTG TGGTGGTGCA
4801   TGCCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861   GGTTGCAATG AGTGGAAATC GCACCAGTAC ACTCCAGCCT GGATGACAGA GCAAAATAAT
4921   AAATAAATAC ATAAATAGA TTTATCAGTT TATCAATAAT ATAGTTTTCT TTTCTAGGTG
4981   TAAATATAGG TAATGACTGT CCTTTAGTAC ATTTTCTCAT GATGCTCCTC TTACTTGGTT
5041   TGGTACAATA TTAAGTATTG AAATAAATA GAGAATCCTG TCGCTACACA TGAGCACTTA
5101   TTCCATTGTC TCATCTCCAA TATGCACGGG AAATTCTCAA ATTGCTAATA ATCTTGTAAC
5161   ACACATGCAT TATATTCAAC AGGAATATAT AAATTTATAA TTATAATTTA GGATCAACAG
5221   ATGACAAACC TTTAGAAGGT TTGTATTAA CCTTAAATA TAATTTTTTA AAAATTGGTT
5281   ATAAATTTT TAATACTTTC TTTTTTGTGA CCTCAAGGGG AAAATATAAT TCTTATAAAA
5341   GTTCAAATGA TTTACAGAA ACAAAGAGTG AATAGAGATG ATGAATGAAT TAAAGGAAAG
5401   GATATTGCTA CATAGATTG GAAATTTAA AAGGGAAAT ACGATTGTTG ATTTTGTGTT
5461   AAAGTATCT GCTTTGTTCA AGATACCTTA TGTACCAAAA AATGATTTTA TCTCAGCCTC
5521   ATATCTCAGT AAATTCCTGA GACAACTTT AGTCCCTGGT GCCCAGGTGC CTTTGGTAAT
5581   TGGGAGACCT CTAGGTTTAG CATCCTCATC CACTCGCCCC AATTTAAATA GTCCTCCCCA
5641   GGGCCATTCA GGCAAGGGAG ATGAAACTT GCTCAAGAGT TGGAAATCAA CTGAAGCTAC
5701   CGAAATTCAT TGCTCAATAG ATAATTTTCC CTGGAAGTAA CTAGGGCTTT TGAATATAAT
5761   AGTGGGCATT TCAAAGTAGA AGGTAAAGTA TTTTGAGAT GAGGAGACAG GACAGAGCTA
5821   CGAGGAATGT CCTTGCTTA GGGACTAGGC TCTTAGCAGT ACCTCTTAGG TAAGAAGCTGG
5881   TTAAGTGGCA CCTTCTGTGT TTCTCTGAAG CTCCCTTTGC TTAGGGACTA GGCTCTTAGC
5941   AGTACCTCTT AGGTAAAGAC TGGTTAACTG ACACCTTCTA TGTGTCTGAA GCTCCCAGAA
6001   CAACTGCCA GTGAAATTTG GATTTTGGGA ATATAGTTTC TTTTTTCTTG TATATTCAAG
6061   TTTTGTGTT TTTTTTGTG AGTCTCACTC TCACTGCAAC CTCCCCCTCC TATATTCAAG
6121   TGATTCTCTT GCCTCAGCCT CCCGAGTAGC TGGGACTACA GGCCTGCACT AGCATGCCCA
6181   GCTAATTTTT GTATTTTTTA GTAGAGATGG GGTGGTTTT TTTTGTAGAC GGAGTTTCAC
6241   TTTGTCGCCC AGGCTGGAGT GCAGTGGCAC GATCTGGCT CACTACAACC TCCACCTCCC
6301   GGGGTTCAAG TGATTCTTCT GCCTCAGTCT CCTGAGTAGC TGGGACTACA GGCGCCTACA
6361   GGTGAACACC GCCACACCTG ACTAATTTGT GTAGTTTTAT TAGAGATGGG GTTTCGCCAT
6421   GTTGGCCAGG CTGGTCTCAA ACTCTGACC TCAGGTGATC TACCCACCTC AGCCTCCCCA

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6481 AGTGCTGGGA TTACAGATGT GAGACACCAG ATCAGCCTCA GAAGACATTT TCTATTGGAA
6541 AGAGAAAACA CTATTAGCAA CCTATTAGTC TAATATTTAA TACTTAATGT CTTCCTTAGT
6601 AATAAACCAA CTCTCTACAA CAAAGTGCTT CCTGGCTGCC TAAGTCATTG ATTCATTACAG
6661 TTCAACATTT TCTCAATGCC CAACAGCCAA GTGTCTCTTG TATGCCAAGT TCTATGCTGA
6721 TTATCAGTAT TTGAATAAGA GGGGGTCTAC ATCTTAAGTA CTGCTTAAGA TGAAAGCCTC
6781 TAGGTTAACA AACTTAACAC AATGTATCAT TCACTACTAA ATAGACCGAA TACAAAATCT
6841 TGTTATTGGA GCCCAGAGAG AAGAATTGAA ATTCAAGTTT TCTCTCTCTC CTTTCTCAC
6901 TCACCACAAT AAGTCAGTTG CACCAAGTCT TGTAGCTCTT TACTGAGCCA TGTTTTACAG
6961 TGTCCCTTTG TTTTATTTGC CACACCCTAA ATAAAAATTG TACTGGCTTT TTTTCCCTGG
7021 GTTTACAGTA TTAATACATT GTCAAGATTT ACCTCTTCGT GTAGATTCCC TGGGAAAAAT
7081 TACCTTTCCT CCTTCCCTTA AATCTTCAG AGGTTAGAAA GCCATTAGTA ACATTCTGGT
7141 ATGTGGACAA AGTTTACCCA TTATGTATGG ATGTTTTACT CTTTCTATTT TTCTGACAAT
7201 AATCTCTTAA GGAGGTGTGG TTATAGAATA GTCAGCTGTT ATAAGTACTG TTTTCTGGC
7261 CTTACAACCT AAGTCTTTA AGCTGTTTCT TAGTTTGCTC ATCTCAAAAT TCGGAATAAG
7321 GATAAACCTT ATCTCTTAGA TTGTTGGATT AAATGAATTA ACATACTGGA AGCTCATGAA
7381 ATGTGCCTGG CACACAGTAG TGCCTAATAA ACCATCTCTC TTATTCAGCC TGTTTTCTGA
7441 TTTTCAGATC TACACTTGCT GAGCCAGGTT CTTTTCATTT CAAGGTGAGC AAAAGCATAC
7501 AAGGAAGAGA TGGAGGTAGG AAGAGATTAA GCCCTAGGCC AAGGTCACAC ACCGATTGGG
7561 AGCTGGAATC AAAGGCAATT TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA
7621 TTCTAACCTT AGGATCGAAA TTCTCGGACA TACAGGAAAT GCTGGGGGGG GAAAATCCGG
7681 TCTTCTCAGC CCAAGAGCCA TGTGAAACCA GACCTTCAA TCTGATGATT CTCAGCCCAG
7741 CTGCCCATTA GAATCGTTGT AATTTAAAAA TACCCTCGGA AAATTCTAAT ATGTGGCTAT
7801 CAAAGGTGAT CATTTGCTTT TATGCCACTT TGTTTTCAAC CAAATGGGAC ATCCAACCCT
7861 TTTCTTTGA GAGTAGTTGT AGGGAAGGA GGGGGTGGAG GGAGGGAAGA GCGGAAAAGG
7921 CTGGATCCGC CCTGAGCCGG TGTCAATATC TGGGAAGTGG GAGGCGCGTC AGCAGTAAAC
7981 AGCTTCTGCT AGGATTATTA TCTCTGCCA CACACTCGGA TTTGAAGGCT CCAAACGAAA
8041 CAATGCAAAA CGCTTCAGTG GAGTTCCAGA AGCGTTAGAC TAAACGACTG GGCTCTTTG
8101 GCCAGTCTGA GCAGCTGGGC GCAGATGCAT AGGCAAGACT TAGCCCGCCT AGACTTTTCT
8161 GCCCACTTAA TTCCGATCAA AGCAGAAACC GGCCGGGCGC GGTGGCTCAC GCCTGTAATC
8221 CCAGCACTTT GGTAGGCAGA GGCTGGCGGA TCACCTGAGG TCAGGAGTTC GAGACCAGCC
8281 CGGCTAACCT GGTGAACTC CGTTTCTACT GGTGGCGGGC GCTTGTAATC CCATCTACTA
8341 GGGAGGCTGA GGCCGGAGAG TCGTCTGAAC CCGGGAGGCG GAGTTTGTAT GCAGTGAGCC
8401 GAGATCGCGC CACTGCATTC CAGCTGGGC AACAGGAGCA AAACCTCCGT TCAAAAAAGC
8461 AAGCAACAA AAAAAAAT GCAGAAACCG AGATCCGGA GAAACCTCG GCGAGATTCA
8521 CAGAAATCCAG GAAAATAGGT CTCTAGAAAT TTGTCCATGG TCCCAGATCT CCATTCTTG
8581 TGGGTGGGGC AGCTGTTACC AGATCCCTAG AAGCAAAGGT TTTTTTGGG GACCGTGTCT
8641 CACTGTTGCC CAGGCTGGAG GGCAGTGGCA CGATCTCGGC TTACTACAAC CTCCGCCTCC
8701 CAGGCTCAAG CCACTCTCCT GCGTCAGCTT CAAGAGTAGC TGGGATTACA AGGTATGTGC
8761 CACCACGCCC AACTTATTTT TTTATTATT ATTTTATTT AGTAGAGAGG TGTTTACCA
8821 TGTTGGCCAG GTTAGTGTCG AAGTCGTGAC CTCAGGTGAT CAGCCCCCTC GGCCTCCCAA
8881 AGTGGTAGGA TTAGAGGGGT GAGCAGAAAG CAAAGGTTTT TGAGTGGCCA CAGGCCCCAC
8941 TCTATTTTCT TTTCTGCCTG TAATGGCAAC CTAGACGCTT GAGCTTCTTA AAATACAAGA
9001 GTAAGTTGCA TGTGAGGCAC CGTTCTACAT TAGGGACATT AGTCTGTTTT ACAGACACCT
9061 TTCAACTCCC TGGTTAACTT TTAGGTAATA TACTCTGCAC TTTAGCAGGA ATGGGACCTA
9121 TAACTCTCAC AGAATTAGGA AAGTGAGGCT GCCTACAGCC TAAATTGAGA AAAAAATAGA
9181 CGGGGGGACTA GTCGGAGGAC CAAACAAGGT TACCAACACG TTAGAGTTTT GCCTTCAATT
9241 TACATTTTTA AAGTAATCAC AACGAAGTGT TTAGATCACG AGGCATCCCT GCATGTAAAC
9301 TGTTAGGCAC TAACTATGGT CGATCTTACA AAGCATTAA TAGAATATTT CTTTAGAGTA
9361 TCGATAGTACG TAACTGACCT ACTATTACAT ACAAACAGAC CAACCTTTAG TAACAGCGCT
9421 CCCCCAAAAC CGAAAAGCAG TAATACGCTT TGCTCAAGGT TGGCATAAAA TTAACCTTACC
9481 TTAGTGCCTT TTTTCTTCT ACCTACAAGC AGTGAGGTTA GCTCTTCTT TGAAACGGTA
9541 GGGGGGCTCT GAAAAGAGCC TTGGGGTTTG ATAGCGTTTC CGGGAGCTCA GATACCTGTC
9601 AAATCACTTG CCCTTGGCCT TGTGGTGAAT CTCGGTCTTC TTAGGCAGAA GCACGGCCTG
9661 GATGTTAGGA AGGACGCCGC CCTGAGCAAT GGTCACCCGG CCTAGCAGTT TGTGAGCTC

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9721 CTCGTCGTTG CGGATGGCCA GCTGCAAGTG GCGCGGGATG ATGCGAGTCT TCTTGTGTGTC
9781 GCGAGCCGCG TTGCCGGCCA GCTCCAGGAT CTCGGCGGTC AGGTACTCTA ACACCGCCGC
9841 CAGGTACACC GCGCGCCTG CCCCAACCCG CTCTGCGTAG TTGCCTTTAC GGAGCAGGCG
9901 GTGCACTCGG CCCACCGGGA ACTGGAGACC AGCGCGAGAA GAGCGGGATT TCGCTTTGGC
9961 GCGAGCTTTG CCTCCTTGCT TACCACGTCC AGACATTGCA ATCAGACAAA AATCACCAAA
10021 ACCAGCGGCC TAAGCTCACG AGAAAACAAA CAAAATCAAG AAATATGTAA AACATGGCCG
10081 CTTTATAGG TAGTTCCTGG GGAGTAAATC CGACTTTTTG ATTGGTCCGT AGCAAATGCT
10141 AGTCAGATAG CCAATAGAAA AGCTGTACTT TCATACCTCA TTTGCATAGC TCTGCCACG
10201 GATGACAACT GTGCAGTTTG TCTTCCAATT AACTAAGAGG TACTCTCCAT CCCTCATTAG
10261 CATAAAAGCC CTATAAGTAG CAGAAATCCG CTCTTTACTT TCGACACATT TCTGGTGTTC
10321 TAAGATGCCT GAGCCAGCCA AGTCTGCTCC CGCCCCGAAG AAGGGCTCCA AGAAGGCAGT
10381 GACCAAAGCG CAGAAGAAAG ATGGCAAGAA GCGCAAGCGC AGCCGCAAGG AGAGTTACTC
10441 TGTGTACGTG TACAAGGTGC TGAAACAGGT CCATCCCGAC ACTGGCATCT CTTCCAAGGC
10501 CATGGGCATC ATGAATTCTT TCGTTAACGA CATATTTGAG CGCATCGCGG GCGAGGCTTC
10561 CCGCCTGGCG CATTACAACA AGCGCTCGAC CATCACCTCC AGGGAGATCC AGACGGCCGT
10621 GCGCCTGCTG CTTCCCGGAG AGCTGGCCAA GCACGCCGTG TCGGAGGGCA CCAAGGCCGT
10681 CACCAAGTAC ACCAGCTCCA AGTAAACATT CCAAGTAAGC GTCTTAACAC CTAACCCCAA
10741 AGGCTCTTTT AAGAGCCACC CAGATACCCA CTAAAAGAGC TGTGGCCAGA CGCCAAATTT
10801 TATTTGGCGG CGGAGGGGTA TTAGAATATA GGAAGTGGAG AGGGGTGGGG ACAAGTGTG
10861 CAGCTTAGAG AGGGACAAAG GGTCTGAAC CCGAAAGAAG CCAGCCATTA AAAATGGCTT
10921 TGGGGTCAAT TCGTTGTGCT TAAATTTAAA ATGGAGACAA GCGGCCATTT TGCTAACTCG
10981 GCGTTCCCGG AAGAAACCGC AGGCTCGCTT AGGTTTCAGA CCCAGCTGTC TGTCCCTGTC
11041 TACGTCGCCA GGATCAACGG TTGCCGTAAT GTCATAATTT CGCCACCAGC TTCTAGCCAA
11101 TAGGCTGTCC TGTCAATTTA AATATTAACC AATCGAGGGA AAGCTGTTTT GAGACTCTGA
11161 TTTACATAGC GGACCGGAGT GGGAACTGG GCAGTAACTG CCTAAGGAAG GACTCCCCCT
11221 CTGTTTTTCGT GCGGCACACC TTCGTAGTAT ACTGAAGGT GTGTCTCTG GGTTCACAA
11281 TGCCCCGGTA ATAGTCTTTT AACCTAATAT GCGTCAGTTT TGATAACAAC ACTAAGGCAG
11341 TACAGAACTA AAGATGTAAG CACTGCGCCA GATGTTGCTT CATACTCTT ATTCTATTCA
11401 ACTGGTTTAT TCAAGATTCA AATCAAATCA AATTTTGCTT GAATCCAGT GCTCAGTCAG
11461 CCATAAATGG TGTGTTGCCT GATTGAACT TAAAATCTCC GTAGGGGGCT TGTAACATGC
11521 AGACAAGTTT GAAAGTTGCT TTAGGAGAAG CCAACTCTTA ACTGCTGGGT AAATTGACAA
11581 GCCTTCGAAC ACTGAAGTGA AGGCCAGTAA GGACTAGGCG CTGGGTGGGG GAGAATGAAG
11641 AGGAGACGTC ATTAACTTA GCACATACAC TGTATCTCCT AGAGGACTCT CCCTTCCTAG
11701 ACAACTGCAG GCGCCTTGT GGCCTGGGAA ATTCCACATT CCCTTAAGTA TTTTACTCAT
11761 GGTCTTTTCC AGGTAAAGAT TTTAAGATGA AGGGTTAGAC GTAGTCTACC TATCTTTTAA
11821 TTCAAGTCTA GAACACGTTT TTAGCACCTA GAAGTTTGCT TTCTCCATTA AAAACCGGGA
11881 ATATACAATA AATAAAATTA GTGTTAAAGC AGATTTTAC AAACTTAAAT ACCATGTAAT
11941 TTAGGTTACA GTTATTTAAC ATAAGGACTG TGTGATCTTA AATCTGCAAT TTCTTTCACA
12001 CCTGGGAAAT AAACCTAAGC CTGTCTTTGG TGCCAGACAA GGCCTTATAC TTGAACACTG
12061 CTGTGCAATC ACAGGCTGCC TTGCCTAGAT AACTTATCTG AGAAATTCTG ATGAGAAATG
12121 AAATTTCCAG AGTCCCTCAC AAGTAAATTT TTTTTTCTT TTTTTTTTTT TTTTGTGAGC
12181 GAAGTTTCTC TCTTGTTCCT CAGGCTGGAG TGCAATGGCG CGATCTTGGC TCACAGCAAC
12241 CTCGCTTCC CGGGTTCAAG CCATTCTCCT GCCTCAGCCT CCGGAGTAGC TGGGATTACA
12301 GGCATGCGCC ACGACACCCT GGCTAATTTT GTATTTTATG TAGAGACGAG GTTCTCCAT
12361 GTCGGTCAGG CTGGTCTCGA ACTCCGGACA TCAGGTGATC TGCCCGCCTT GGCCCTCCAA
12421 AGTCCTGGAT TACAGGCTTG AGCCACCGCG CCGGGCCTAA ATGGTTTTTT TTTTTTCTAT
12481 GCCTCTAATG GACCTGGTCA CTTATCCCA TTCAGACTGA CCGCTCTCCT ACCTGCCAAC
12541 TAACTAATCA GTGTAACCAA AATCTGCAAA CAAAATTCAG TATCTTTTCC CCGCCTTTTC
12601 CCCTTTCTCT TACATAGATT ATGTTTTTGC CTGTGTTAGA TGAAATAATT CTATTGCTTG
12661 TTCTCTCTTC TGTACAAGTA CCCAGTAAGC AAATTATTAA CTTCTTGGTC ATTTATTTCT
12721 GAATTTTCCA CCAAGACAGT GTTTATGTGA GTCATACAAT AAGAACCAAC AGAAATGTGT
12781 GTCTTGAAAA CAGGTTGTCT ATCCCTGGAC CCTTTGAGTT TTCTGTTTCC TTTCTTTTGG
12841 CTTTTGCATG CTAAAAGTTT ATCGTCCGCG TTTGTTGTTT TTGGTTATTC TAATTGGACT
12901 TGGCTGATTG GTTGCATATT GGTGGCAGTA GTAGAATTG AATTCTGGTT TTCTGGTCAC

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12961 ATCATTAAGT GATTAGTCAG TGGAGAGGAC AGGAAATCTG GTTTATTTAT TAACCTTTTT
13021 TTGGGGTGTT TTTGTTTGAA GATGTTGATA TTCTCTGTGA GGACACAGGG TTAGAGTTGG
13081 TGTTTTCTT TCTGACTTTA CATGGGATTT GATGTTTTGT GCTTGATGTC CTCTTTCCAC
13141 CTTCCAAAAC TTGTCTTTTT TGAGTCCAAA TAGTTGTCGA TATCTGCAAA ACCAGTATTC
13201 CTGTGTTAAG ATGATATGAA TATAAATGG CTGCCCTGTT ATAACTTTTG ACTTTAAGAA
13261 AGTGTTAGGA CTAACAGGAG AAAAAAGGA AATCAAGGAA ACCGAATGTC TGGTCTCAAT
13321 AACTGCTATG GCAGAGGCTC TACAGCTTAT TATTAATTTT AGTAATTTCA CATTATTGCC
13381 CCTTCACGTT CTTAAGTAA GGTTAGAGGA CAGAAGAAAC ATAATGTTGT TACAAATTGG
13441 ACTATTGAGT CAGGGAAAAA AAAGAGTGCT TTCAATATCT GAATAAAAA AAGTTTAAAT
13501 ATTTTCTAAA CCTTAACGAG TTTATTGTAA GGGATGTGAT GCTGGAAACT AGGAAACTAG
13561 AATTTTCTTC TAACTGAGA ATCAGAATTA TTCATATTCT CAGCAGTGGT GCCACCTGAG
13621 GGAATTCTGA TCTTAATTAC ATACTTTTAT TTCTTTAACT GATCAACATG CTAAATAGAT
13681 AACCTATGGC TCTGTTTTTA CCCACTTTAA ATCTGTTCT ATTAGCACGG TTAGCTTTCC
13741 TAATTGGCAA TAAGATTGAG ACTATCTTTT TTTTTTTTTT GAGACAGAAT TTTGCTCTGT
13801 GGCCCAAGCT GGGGTGCAGT GGCACAATCT CGGCTCACTG CAACCTCTGC CTCCAGGGTT
13861 CTAGCAATTT TCCTGCCTCA GCCTCCCAAG TAGCTGGGAT TACAGGTGCA CCACCACGCC
13921 TGGCTAATTT GTGCATTTTT AGTAGAGATG GGGTTTCGCC ATGTTGGCCA AACTGGTCTC
13981 GAACTCAGGT GATCCACCTC GGCTCCCAA AGTGATGAGA TTACAGGCGT GAGCCACCGT
14041 GCCCAGAAAA GACTATCTTA TTTTATGAAT TTAAATAATT GTGAAATTAT CCACTTAAGG
14101 GAATTAATAA ATTATAATGT AATCTTAAAT TTTAGTTGGC TTACATAAAG ACTTAAATA
14161 CATCAATTTA AATAAAAACT CATTTGTCTA AAAAAAATC AAAAATTTTC CTTGTGCTTT
14221 AAATGTGCTA CCTCTTTAAG TTCTAATTAA GAGAAAAAAA GTTTAACTGT GAGTTTCATT
14281 AGTGGTCTTA GTTAACAGCT TAAAGTATTT TGTAATAAATA ATACTTCACA ATTTTAAAT
14341 AACTTAAAAA TATTAATACC TCTTTTATTA GGTTTTTTTA ATAAGGAAAA TATATAATAC
14401 ATCTAATCAA GATTTTTTTT GGACAAATTG GCTTAATAAT TTCATTTTAA AAATGGCTTC
14461 TTTATTCTTA TACTGTAAAA ATAATATTAG CAGAATATTA TAGTATACAC AAGTTTAGGG
14521 TTCATATTCT AAAAAACAAA AACAAAAGCT AATTTAACTT GCATTTACTA AATTTCTTCC
14581 ACTAGTTGTA CTGGTTACAT GAGTTAACAT CACTTTATTT ATTATTCTAA AATTGTAAAT
14641 TATTCAATGA ACCAAATTAA ATGATAATAG ATAATGTCAT TTTTAAAAAT GGAATTAAAT
14701 TTTATGTTAC TAATTATAAG GATTCAATGT GTGAGCTTAA GTACTGAGTT CACAGTGTAT
14761 GATAACTTTA AGAATTTAGG TGAATATTAT TAAATTGAGT AAATTAATTC TCAATCTTTG
14821 GATACCTGGA CAATTTCTAA ATTGGAGGGT ACAAATACA AATCACAAGA AACAGTGTAG
14881 TTTTATGCAA ATAACATTTT TACACAGTTT AGAATAACCA TTGATAAACA GATAAGAGAA
14941 CATATGATTG CCTTAGAATA GATAGCTTTG CTTTCGCCAC TTTAGATTTG TAAATCACGT
15001 ACTGTATACG TGTGGGCGTA GAGGACCATG CAGGTTTTGG ATGACTGCCT CTGTTTTCGT
15061 CATGCCTATG CGGGAACACA ATTGCCTGCT TTGTTTAAAG GCTATGGTTA ATCCAAACAG
15121 CTCTGACTCT ATCAAGTACT ATAGCTACAG AGAAACACAA GTAAGCATTG GAGATAATGA
15181 CTACCTTGAG CCTTTACTTA TTTAAAAAGT TGTTACTGTT TGTTAATGTG GTACATTCAA
15241 TTTACTATGG ATTGTCACTC TAAAATAAGA CTTCAATCTT TTTCTTATTT TTATATAGCC
15301 ATGATTTATA TTCATATCTT AATGTAATAA CCAATCTTCT CTGACAACAT TATAACAATG
15361 CTGGAACCTC CATTTTCAGT ACTTCAAACA ACAAATACTG CTTTTTACTT TCAGAGCAGA
15421 TGGATATGTG CTTCCAGTG TAAACACATT TGGAACTCA CTGAGAAATA CACTATCACT
15481 AAAAATACAG TTCTGAGATT CATTAAAAGA CCTCCAGAA TCTGGAAGTA GGAAGTTTCC
15541 TCTTCAAAGT CTACAGAGGA AGATGAGGTC TGAAATAGAC AGCTTCTTCC TTTCTTTACC
15601 TGTGGTATTA TTCTGTTTTG TCCTTTTCTC CATTATCTGT CTTTCCAGTG ATGAAATTTT
15661 GATCTGGCCC TCCCAAGTAT TAAAAACAA GCAAATAAAC AAATCTCAGT TATATTTTAC
15721 TAAGATATTG GCATGCTAAC TTTTTCAGG TTTGTAACAA GGACCTTTAT AACTTGACTA
15781 AAAGTTCCTA AATAAGAATA TTTACTAGAA AATTTATTTT TGCCTGTGGC CCACATTTGA
15841 GTCAAAATAA TCAATTAGGA AAAATGAAC TGTTTAACTA AAGTTGACCA AACTGATCTT
15901 TGACCAAAC TATCTTTGAG ACCTATTCTT CTAAGACAAG CCAATTAAT TCTTGGAGAC
15961 AATTTGTACT TTAAGGAATT CTTATAATAT TTGTAATTAC CCTCATAACT TTTTTTTTTG
16021 CCCTACTTCT GTGCTTCTCT AATATGCAGA TTATTAAATG TTGTTACAAA GCCATTGTCA
16081 AAAAAACAAA AAACAAAAA CTAACAAAC TCACATGGTT AGACTTGCTC CTTTATGAGA
16141 TATTTTACC AAAAATGGAG GAGTTGAAA ACTCTGGTGC CAGAAATCGT GAAGACATGG

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16201 CCTACCTAAC ATGGAATGT TGGTTGTCAG TGGAAAATAC TACACAGAGA TAGCCATAGT
16261 GCTGCACAGC CAATCTTAAG TGTTTCTAGA GAATCACTAA TTGTTTCTAG AGAATCACTA
16321 ATTGTTTTCT TTTAACATTG TTGGTTTATA CAAGAAGAGA GTATCCATAC TAAACTCTTT
16381 TCTACTGAAA ATAATGTGCA AACATAACAT CCTATTCTTA GACAGTTTGT AGTTTTTTTC
16441 TCCCATTCTT ATTTTATAAA TCATCTTTTT AAAATACTTT GTTGAGTGAA ATCAGTCCAT
16501 TGCTTGATAT ACCTTGAGCA CAAGTAAATA GTATGCCAAA AATTAAATGT CTTTCAGTCA
16561 CAGTTTGACA AACTCAACTA CCCTGAGCCT ATAGAGTGGT AATAATTGCC CTAATCATAA
16621 AGATGGGGTG AAGATTAAAT GAAATAGCAC CTATAGAACA CTAGTTCAGG ACGTGGTATC
16681 ATGCTAGTAA AATGGCTGCA CAGCACTGCT CAATGATGAC AAAAAGTGAA GCTTCTGGAG
16741 ACAGACTCCA AGTTTGACTC CCAGATCACC ACATATAAGA TGTGGGACTC TGAGGCAGGT
16801 CATTTAATCT CTCTGTGCAT TAGTATCCTT CTCTATACCT TTACAGTGAT GGTAATAGCA
16861 CCTACCTTCT AGAAGTATGT GAAGATTAAA GATCCTTAAT GCATATAAAC CACTGTGTTT
16921 ACTGCTGTTT GACAAATTTT ATTTATAACC ATCTTTACGC TCCTAAAAGG ACTTGAAGCA
16981 GCTTATGACT GAAGACTTTG GTAGGAGTTG GCCTTCTATA AATTATAAGA ATTTCAATAA
17041 TTATTTGATA TGAAAATGCC AGTTGATCAT AGTATGTTTA CCGGGGTCCA ACAGGTTGAG
17101 AAAAAATACA CTTTTTTTCC CTGAACATAT GAAATTAGCT CTCTAGGCAT ATTCCTAAGG
17161 ACTTAAAGAA TGATAACTAT CATTCTCTTT AAATCTTCCA GATTGGAAG GATATATATA
17221 TTCAGCACAT TGACAGACAA TCCCAGTAGT CCTAAATTAA AAGACATTAA AAATTAGTGA
17281 AACTTTTCCT ACCTTTAGCC TGTGTAATCC TGGATGACCA AGCATAAAAT TAAATTGAGT
17341 AGAGTATACC ACTGTAACAT TTCCTGAAAG GTATTCTAGG CTCTGAGTAA TTTCTTTGGG
17401 GTCTGAAGAT CAGTTTGACA TATCCTCAAG TATCATGAGT TCATTATAAT TAAGAAAAAG
17461 AGAGTAAATC TGGAGAATGA GCCACTTTCT TACTACTCCT TGACCTCAGT TCTTTTTTTC
17521 AGAGACAGGG TCTCACTTTG TTGCCCAGGC TGCCAGGCTG GAGTGTAGTG GCGCAATCGC
17581 ATCTCATGT AACCTCCACC TTCTGGGCTG AAGCCATCCT CCTGCCTCAG CATCCTGAGT
17641 ATCTGGAACC ACAGCAGGTG CACACCACCA TGCCAAGCTA ATTTTTTAAA AAGTTTTTTG
17701 TAGAGATGGG GTCTTACTAT GTTGCCAGG CTGGTCTCAA ACTCCTGGGC TTAAGTGATC
17761 CTCCTGCCCTC AGCCTCCCAA ATTGTTGGGA TTACTAGTGT GAGTCACTGT ACCCGGCCCC
17821 ACTTCAGTTC TGAGGAGGAA AAAATATGTA ATAATAATGG GACTTTGGTT TGCTGATTTA
17881 AAGATTCATG TAACCTTATC ATCCAATGCG CAATTTGTAG AATAATTAAT AGAGACATCT
17941 GGTCTCATGT TTCTACAGT GCTCATGCCT TGATAGTAGA TCTCCTTGCT GCTGGCTCAG
18001 AAGGGTAAAA GAGCAGAAAT GATGGGGCTT CTCTCATCTT ATGAGGAAAT AGACCTATGT
18061 AGAGGAGGCT ACCTGTGGTA AAACCTTATC CTCATCACTT AAAATTCTAG GCTTATTCTC
18121 TGACCATATC AAGTTTTCAA ATGGTAAAAG AATTGGATTG AAGAGAAATA TGAATAAACT
18181 TTTGTTTTCA CTTTTCTCCC TCCTCTCCCC CCATTCTCCC TTCCTTTATT TTCTTGCTCT
18241 TAGTTTTCTT TTCACTTTT TGTCTACTAT TATTTGCCCA AACTCACTG TAGGCTAGAA
18301 CAAAAAATAA TTGAAAATTA AAATGTGCCC CTTTTGTTGT TAGACTTGCT TAAACAATTG
18361 GGGTAATGAA CCTTGGACAC TAGATTTTAA AACACACACA TTTGAGCTTC AGTGCCTGA
18421 AATAAATATA TTTTAAACAA TTAATAAATA AAATTGCATG TTTAAAAAAT CTGCAGAGAA
18481 CAATACACGT TGTGAGATCT TGAATGGAAG GAAAACCTGCT AGCCTCAAGA GTGGATCAAA
18541 GATGCTCAGC AGGCAACAGA GTAAGAGCAT GTTGGAGGGT TTAGAGAGTG TGCTCAGGGT
18601 TCTAGGCTCT AAAAAACAGA CAGTCCCCAC GGCCTGGCCT TCGTCGCTGT ATCTTCTTTA
18661 TGAAAAACAC TAAGTCTTTT TCCTCACTGG ATAAATTTTT ATCCTTCAAG TTTAGATCAA
18721 ATGGAACCTT AGGACACTGA CTAGGTATCA TTCATCTTTT AAGAGCGTAC AGACATTCAA
18781 GGGCTAGAGG ATGTGGGTTT ACTGCACAGG CTCATTATCC AACAGCTGTG CTACCTGGGA
18841 AACTTAACCT CTCTGTGCCT TAATTTCTCT ATCTATAACG CAGGGAGAAT GACAGTAGGT
18901 ATCTCATAAG GTTGTGGGAA CAACTAAATG CATTGGTATC TATTGTGTAA AGTGCTTAAA
18961 AACTGCCTG GCACAGAGCA AACATCCAGT GAACTTTAGC CATCATCATT ATCATTGTTT
19021 TCAGAGTCAA ATACAATATC TCATATCTGA TAAATTACAG AAGTGAATCA ATCACTCTCT
19081 CTCTTTTCTC CAGGGGGAGA CAACAGCTTT TAGACATATC TTTTCAACA GTCGTCCTG
19141 CTGGACACTG TTTTATCTTG CAAATAAACC AATGAAAATG AGTGATCCTA GAAGAAGATA
19201 AATGGAGGTA TTTTGAACAA TCAAGAAGG ACAAATGAAC ACCTGGCTGA GAAAAATTAG
19261 CTCTTTTTTC TATGCATAAA ACTATTAAAA TATCTTCAT AGAAATTTAT GCACAGGAA
19321 ACATAAAGAC AAAATTAAAA TAACCTCTAG TATCTCCTAT TCTTTTATA TGTATATTAT
19381 ATATACTCAT ATTCATATAT ACATATATCT CACATCATGT ATCATATATA AAATAAATTT

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19441 AGGTGTCATG ATATATATTT AGATAAATAT ACTTAGAAAC TTTTATATGG ATGTATAAAT
19501 TATGGATATA TTGATAATTA TGTATTTGTT ATTGACTACT TCAATTGATT CCCATTTTTA
19561 TGCATTATAT TATAGATTAT ATAGCTCACA CATCTTTGTA CATAAATCTT TGTTCAAATA
19621 TTATTTCCCTA AGGATAGACT TCATGAAGTG GAAATACTAA ATCAAAAGTG AAAAACATTT
19681 TCTAAGGTTT TTAACATATA CATTGCCAAA TTGCTATTCA GGATCATACC AATTTATAAT
19741 CCCAAAATTA TATGGAAATT CCTGTTTTAT AGCACTCATA TTTACAATAA ATTTTAAAAA
19801 TCACTGTAA CCTAATAGTC CTTCAAAAGA AAAAAAATTT GAAATTACAT TATTTTAATG
19861 ACTCTATTAG TGAGGGTCAT TCTTCCCATG TTTCTTGTTA GCCATGACCC TATAAGAAAT
19921 AAAGTGCAT GCAAAATGAT AAACATGACA TCAATCATT CATGGGAAGG CACTATATAA
19981 AGAATAATAC CTTAGGTAA GGCCACATAA ATATTTATCA GGTGCCTTTT CTGCGGAGGA
20041 CTCTGAAGGG ATACTAAACT GCATTTAGCT GCATGCAACT GAAACTACTT TTACCTACAT
20101 TGTCTCTTAT AAACATTATA ACTACTCTT GAGAAAGTGT TTACTATGGA CTGAATTGTC
20161 TCCCCATCCC CCCAAATTCA TATATTGAAG CCATAAACCC CAATATGACT CTATTCCTAG
20221 ACAGGACTTA TAAGAGGTAA TTAAGGTAA ATGAGGTCAT TAGGATGGGT TCCTAACTGG
20281 ATAGGATTGG TGGCCTTATA AGAAGAGGAA GATTCTGCAC TTGGTCTTCC AAATTAATAA
20341 ATTTATTTAA AAGAAAAAAA AAAAAGAGGA AGAGAGGGAG CTCTGCACAT ATACTGAGGA
20401 AAGGCTATGT GAGCTCTCAC AGTGAGAAGG TAGCACTCTA CAAGCCAGCA AGAGAGCCCT
20461 CAACAGAATC CAGCCATGCT ATACCCTGCT CTGAGACTTC CAGCCTCCAG AACTGTGATA
20521 AAATTTTGTG GTTTAAACCA CACAATCTAT GGTATTTTTT TATGGCAGCC CAAGCCAACA
20581 AAGACAGCAT CATTGCTGTC ACTTACAGAC AAGAAACTA AGACTAGGAG AGAGAAAAGT
20641 TAACTTGTC CAAGGTACA AAAGCCAGAA ACAAGTGAGG TGAGAAGTTG ACCTTGTTCT
20701 CCTCAATCCA AGGCCAGGAC TCCTCCACTC CACATGTAGA TAGCCACCTC ACAGTCAACA
20761 GCCAAATGTC CACACCCAG AGTCAGCATT AGACCAAGAT GTCTTACCAG GAGACAAATG
20821 CCTCATCTTG AATAAATATG ATCTAACCA TTACCCATGT AAAACATTGA ATCTCATGAG
20881 AAACAAAAT GCAGAGTATG TAGAAAATA TGTTTACCAC TTAAGTACA GTGATAAAAA
20941 GCTTAATGAT ATCTTTATAG TCTTGGAGGG GTTTGTATAT GTGGTGAAAC AGGTGCTCAC
21001 GCACTGCTGA TAGACTGTAA ATTGGTCTTA GAGAGAAAAA TAAATAAACT GGAAGGAGAT
21061 ATGCTGTATG TTTACTTTTT TTATGGAAAC ATATGATATA CCTGGAAAT CGATTGACCA
21121 TGCATCTATT TCTTCAATGG GTATGCACAG TTGAGCTGTT CCCATGCACC AGGCACTGTA
21181 ATGGGACAAC TGCACATGAC AGTCAAAAAT CTCAGTCTCA TGAAGTCGAC ATGCTCATGG
21241 AGAGGTGCTA CCCACTAAAC TAATATTTGT ATATCAATTA TGGATACATT GGGCCACATT
21301 TACAGAAAT CACTTACAGT GGGTTACCAG AAGGGATTTT TTTTCTTGAT TGGCAAGAAG
21361 GCTAGGCTGT TTTGTTGGGG GCTGGCAGGA GCTGTCTAGG CTGCCCAAGT ATGCAGGTCT
21421 CTTCTATCAT CCTGTGTTAA CCATCTTCCA TGTATCTTTC AACCTCATGG TCATCTGCAG
21481 CATGTCTAGG GGTCAATCT ATGTTCCATG CAGGAAAAAA GGGTAAAGGG AAAGGGAAGT
21541 AGGCATGTAC CATTTAATG CACACCTTGG TTTTCAGAAA ATTTAAGAAG AAAGACTTTC
21601 TGCTTTCTC TGAATATTCT GTATTCTGGA TTACAACGCA ACAGAAACGT CACCTTAAAT
21661 TCTAATGTTT TTCTCTCCTT GCTTTCAAAA ACTGACTCAT TAACCTCCAC GTGGCTTGGA
21721 AAAATTTATTT CAGTCATCCA GTAATGAGCT GTTCATAGAA ATGTTTTGGA CATCAAGTCT
21781 GTGTGTTAG CATTATACAT GTTAAGCATT GAATAAAAAA CAACATGATG TGGGTAAATT
21841 TCTTTACTTA CATATAAGTA CTTATATACT TATAGCTGAA AAGAGAGGTT GAAATGTCAG
21901 GTGGAACAGA AATAAGATTA CCTAGATGTT TCTCCTATGG GTGATTTTCA GCTATGCTGA
21961 TCTTTCTTCT GGGTCAGGTA CTCCAGAAC TTCCTAATTA AATGGTGGCC CTGATCTTAG
22021 TTCCTCTCTC CTCTTAGACA TTTCCAGGA CTACAGAAGA TGTGCAGTTT ATAAATGAGT
22081 AGCAGAAACC TACTGAACAA ATTATTCAGG CTCATCTGAA CAGAGAGGAC ACCTTCTCTG
22141 CTATACTCTC TCAGTGATTT CCCTGCCTTG GGTCAATTA TTGTCTTGGA CATTGATTTA
22201 AGCACATAAT AATTGTTGTC ATTGCTTATG TTTGGATTTT ATCTCCCAA ATAGATGGTA
22261 AATTCTTTAG TTTAGAGACC AAGTAATACT TAAAAAATA TTTTGTGTGT GTGTGTGTGT
22321 TTTTCTGTG TCTCTCAGCC CTGTAATAGC ATCGTACTTA CACTTGTTAG ATTTTATAGAG
22381 ACAACTTTTA CAAAACATGG AATTATCTAC ATACCTTTT TACAAAACAG ACAAAATTA
22441 TACTCAGTAG TTGAACCAA AAAAGCAGTT CAAATAAAAT ACTTGAAAT GAAGAAATCA
22501 TTTGAACAGA GTTAAAGTTA ATCGTAAAT AATGTCTGTA AAAATTATTG CCAATCAAT
22561 ATAAAGTTCA AAAATAGTGC TTGAAAAGG AAGAAATCATA TGAAAAGGGA CTACTCATTT
22621 TAAAAATGTT AGATATCAGG AAAAGCCAAG AAGTGAGTAT GGTAAGAGTG CTGTCAAGTG

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22681 AAACCCTGCT AATCTCACTG AACATGTAAG AATCTGTAGA TGCCTTTATT TTATTCACCTC
22741 ACACACATAT GTAGAAAGAG AAATATATGG TAAACATTAA AAAAACCATA TTAGAATGTA
22801 AAATTAATAC TTTAAAAAAT GGGCTGTATA CTTTCTTAT CACCGGAGAT AAGAATTTAT
22861 TATTTTAAA ATAAAGTTAT TTTCTCTGTG ACTGTTTCCA TGACTTTGCT ACTTAGAAGT
22921 TAGAGATGCC AAAGTTTATC TAAGAAAATG TTTATGGAAA TATTATTCA ATAATGAATG
22981 TTTAGAAGAC TGAATTTCTT GACTGGGCGC AGTGCTCAT GCCTGTAATC CCAGCACTTT
23041 GAGAGGCTGA AGAAGGAGGA TCGCTTGAGT CCGGGAGTTC AAGAGCATCC TGGGCAACAC
23101 AGCGAGACCC TGCAGCAAAG TAAAAAGAAA AAAGAATTGA AAAAGGAAGA CTGAATTTCC
23161 TTTGGGCAAG TCATGTGACA TTCCTGTGCC TCAGTTTCTT CATCTATAAA GTTAATTCCT
23221 ACATTTTGG GGAAGGAGGA GAAAACTTA GGATAGTGAC TGGCACAGAA GAAGCACTAT
23281 ATACTATATA TATGTGATA TCATTTGTTT TTATGGTACC ATTTTAGCTA TCTAATGCAA
23341 AATATGAATC TTTTCTTCT GGGTCTTAAA TTATGGAATG TAAGAATTTT CTAAATTCCTC
23401 TAATCTGTG TTAGTTTAA AGCAATGGAG TAACGTATCT GTCAACTTGT AAATATAAGG
23461 ATCAACCTGA TCCACAATTT GACCCCTAGC CACTAATATT TAATAGTACA ACACCTAGAA
23521 ATTATCAAAG GTCAGAGAAG CCAACAAAT GTAAAAACAT ACAGGTGCTC AGAAGATGC
23581 ACCTGTAATC TCTCTAAGGA GAAATATTT CCAACTGAG TGACACGGTG CTTTAGTGAG
23641 TTGTGGAATC AATCTCATGA TTTCCAACCT AGTGTCTTT TAAAAAGAA CTAGTCCACA
23701 GTAGAAATATA CTAAAGTGCT GGTGCTTAAG ATAGTATTGT TTTCTGGAAA AAAAAAAAAA
23761 ATTTTCTTCT TTTGAGACAG GGTCTCGCTC TTGCCAGGC TGAAGTGAC TGGCACATC
23821 ATGCTCACTG CAGCCTTGAC CTCCTGGGCC CAAGTGATTC TCCACCTCA GCCTTTTGAG
23881 TAACTGGGAC CACAGGTACG TGCCACCACA CCCGGGTAAT TTTTAAATTG TAGAGACAGG
23941 GTCTTGCTAT GTGCTTAGGC TGGCCTGTG AACTCCTGGG CTCTAGTGAT CCACTAGCCT
24001 CAGCCTCCCA AATTTATGGG ATTATAGGCA TGAGCCACCC TACCTGGCCT GTTCCCTGAA
24061 TTTTCTTCT TTTCAAGGTG TTGTGCATAT GTGTGTGTGT ATGGGTATAA CAGAGAGACA
24121 GAGAGAAAGA AACTTTCTA TCTCACTTG CAATCAGAAG TTTGAAGTCT TATCTTTTGG
24181 CTTTGTCTT AGAAATATTT CAAATGTAGA CTCTCTCCT TACCACACTG TCCCCTTAGG
24241 CAAGGTCTTT GCCATTCTT TGAGACTATT GCAACAGACT CCAACTTCT GACTGTGGGC
24301 CCTTCTCAA AATGATTGTT TATGCAATA ATCTAAACCC AAGACAATA CAACAATACA
24361 ACAAATCTC TGCTTAAAAA CTTCCAATGT CTGCCGGGCG CGGCGGCTCA CGCATGTATT
24421 CCCAGCACTT TGGAGGCAGA GCGGGCAGA TCACTTGAGG TGGGGAGTTC GAGACTAGCC
24481 TGGCCAACAT GATGAAACCC CATCTCTACT AAAAATACAA AAAATTAGCC AGGCATGGTG
24541 GTGGGCGCCT ATAATCCCAG CTAATTGGGA GGCTGAGGCA GGAGAATTGC CTGAACCTGG
24601 GAGGTGGAGG TTGCACTGAG CCAAGATCAC ACCATTGCAC TCCAGCCTGG GCAACAAGAG
24661 CAAAACCTG TCTCAAACCA AACCAAACA AAACCTCTAA TATCTACCA ATGTTTCACA
24721 CAAGTATTG GGGATCTTCA CAAATGGCCC TTATGGAGTT TTCCTTTGCT GAGACCCTAT
24781 GCTCTGGCCA CACTAAACTC ATTACAGATC CCAGAAAGGC CTCAGCCTT GTGAGCAAGC
24841 TCTTATCTCC AGGCCTCTCA CAAAGACCTG TTCCAGTAGA AGCTCAGGGG AGCAGCTGG
24901 ACATTATTCC AACAAACCTT TCCCCACAGC TATGCAGCCA AATCTGCCAG CTCAGTTAAT
24961 TAATTAAGCA ATTACAGAT GAGGGTCTGC CCAGGCTGGA GTGCAGTAGC TGCGACCTCA
25021 AGCTCCTGGG CTCTAAGTGA TCCTCTTCAG TCTACCCAGA AGCTGGGACT GCAGGCATGT
25081 GCCACCACAC CCAGCTAATT TTTTTTTTTT TCAGTAGGGA CCAGGCCAAC CTAGTCTTGA
25141 ACTCCTGGCC TCCAGCCTTC CGAAGTGCTG TAATTACAGG CATGAATCAC TCGCCCGAGC
25201 CAACCCGCCC AGTCTTGTTA GACATGGGGT CTGTAGTTTC TAGTAGGTTT TTGAGTCTAG
25261 GGTTCCTACC TCATGTTTTA TAGTTAATTT AGGGGAGGGA CTGTGTCTGT TTATCTGGG
25321 ATGTAGGGGT GGGCAGGGG ATAGAGGGGA CTTCAATTAA TGAAACCAGA AGCAAACTC
25381 AGTTGAGGAC ACCGGTCATG AGAGTGGCCT GATTATGGCC AATCTTACAT AATGTGTGAG
25441 ATCTTGATAT TACCCCATCC TTGAGAGTCC TCTATAAAGC TACAGGGACT TGGGAGCACC
25501 TTTAATTACA GACAACCCAT GTTCTGTGG ATTATGATT ATTAGATTGC ACATGCCTAA
25561 ATAAAGACAT CCTCTGCAGT CTTTGTGACAA TTCTATAAGC ATCTTCTGAC TCCGCAATTA
25621 GACAGCTAAG AGATCTGTGT TACTTCCCTC ACATATATAA ATAATTTTAA ATAAAAATCA
25681 TGGCGTGAAT AATTTCTTTC CTCTACCGAT TTGAAGCTAT CCATTGGGAA GACCACTCTG
25741 AAGAGATGAA ATAAGTCTTC TGCCAAAGAT TACTTATTAA TTTACAAGGA AAAGGGGAAG
25801 TTTTGTTCCT CTCCGTGAAT TTGATTGAAA ATCGAGGGCT TTCTCGAATA GTTTTGGCAT
25861 CCAGGGTCAT TTTTCATTAA AAAGAGAAAA GTCATGTCAA ATATGAATTT CCGCAGATTA

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25921 TTCAGCACTA GACCCTGGGA GATTCTGTAA AGAGGGGTTT TGTTATACTC AACTTTTCCG
25981 GGTAACAAAC ACACAAATAC TCCTCTCCA AGGGGCGGGG GCGGTGCCTA GGTGATGCAC
26041 CAATCACAGC GCGCCCTACC CTATATAAGG CCCCAGAGGC GCGCGGTGT TTCATGCTTT
26101 TCGCTGGTTA TTACATCTTG CGTTCTCTG TTGTTATGTC TGAAACCGTG CCTGCAGCTT
26161 CTGCCAGTGC TGGTGTAGCC GCTATGGAGA AACTTCCAAC CAAGAAGCGA GGGAGGAAGC
26221 CGGCTGGCTT GATAAGTGCA AGTCGCAAAG TGCCGAACCT CTCTGTGTCC AAGTTGATCA
26281 CCGAGGCCCT TTCAGTGTCA CAGGAACGAG TAGGTATGTC TTTGTTGCG CTCAAGAAGG
26341 CATTGGCCGC TGCTGGCTAC GACGTAGAGA AGAATAACAG CCGCATCAAA CTGTCCCTCA
26401 AGAGCTTAGT GAACAAGGGA ATCCTGGTGC AAACCAGGGG TACTGGTGCT TCCGGTTCCT
26461 TTAAGCTTAG TAAGAAGGTG ATTCTAAAT CTACCAGAAG CAAGGCTAAA AAGTCAGTTT
26521 CTGCCAAGAC CAAGAAGCTG GTTTTATCCA GGGACTCCAA GTCAACAAAG ACTGCTAAAA
26581 CCAATAAGAG AGCCAAGAAG CCGAGAGCGA CAACTCCTAA AACTGTTAGG AGCGGGAGAA
26641 AGGCTAAAGG AGCCAAGGGT AAGCAACAGC AGAAGAGCCC AGTGAAGGCA AGGGCTTCGA
26701 AGTCAAAATT GACCCAACAT CATGAAGTTA ATGTTAGAAA GGCCACATCT AAGAAGTAAA
26761 GAGCTTTCCG GGAGGCCAAT TTGGAAAGAA CCAAAGGCT CTTTAAGAG CCACCCACAT
26821 TATTTTAAAG TGGCGTAACA CTGGAACAA GTTTCTGTGA CAGTTATCTA TAGGTTTAAG
26881 TTGTGATGCA GCTGAGTTGA AAAGGCTTGA GATTGGAGAA TTAATTCAGG CCAGGCTTCA
26941 AGACCATCCT GGGCAACATA GCCAGACTAC CATCTATACC AGGGGTCTC ATTTCCCGG
27001 CCACCGACCG GTAACCGGTC CCTGTCCATG GCACGTTATG AATTGAGCCG CACAGCTGAG
27061 GGGTGAGCGA ACATTAACCA ACTGAGCTCC ACCGCTGTC AGGTTAGCTG CAGCATTAGA
27121 TAGATTCTCA TAAGCTCAA CTGTATTGTG AATGGCACAT GCAAGGGATC TAGGTTTCAG
27181 GCTCCTTGTG ACAATCTAAT GCCTGATGAT CTGAGGTTGG AGCAGTTTTA GTCCGGAAT
27241 CATTGCTCCC AGCCCTGCA CCCCCTGTC CGTGGTATAA TTGTCTTACA CAAAACGGTC
27301 TCTTGTGTCA AAAAGGTTGG AGACTACTGG TTTTACAAA AAGTAAATTA GTCAAGCATG
27361 GTTGGCACGC TCCCTTAGTC CCTGCACCCA GCGGTTTAA GATACAGTGA GCTATAGTGG
27421 TGCTACCTCA CTCCAGCCTG GGTGACAGCG AGTCAGACGT TGTCTCAAAA CTTAAAAAA
27481 AAAAAAGTTA AAACAGAAAA AGGGCTCTT GTCAGAGACT GCCGTATATC TAGAGGTCCA
27541 GGAACATAAA AGTCTGATGT CCAATCCTGA AAAGCTCGAT GGTGCACTAG AGGAGGCTTT
27601 TACATGTAAG AGCATCTAAG TTCTGGAAAT GCCAGTGTC GGGAAAGGAA GTGGAGAGCA
27661 ATTTGGCATC CAAACATAAC TTGCTGATAC TTTTTTTTTT TTTAACACAA GTACTACATT
27721 CTAGTCTTTC TGTGGTGTCA TTGTAACAT TGTTCCTTAA TATGCTATCC ACTGACTTCA
27781 AGGGATCAAT AAATAGGAAT CAAGGTGTC CAGAATATGG ATTAGGGGAG TTTTTTTGTT
27841 GTTGTGTTG TTGTTGTTTT TCATCTATTTC ATTATCCTGT AGCTGAAATT TAGAATTTTC
27901 TTCCATTGTG TGTGACTGAT AGAAATAACA AATTTGTAGG TTATAGTTGT TGCAAGATC
27961 TGGAAATCGT GCTTGCTTAT TTCCGAAGTA CTATTAGGTA TATCAACAAA AACACACATA
28021 TTACGGTCAA GTGGTTTGAT AATTATTTTA ATATTATTGG TCTAATACAA TTGTAACCTT
28081 ATGAATTACT TTAAGTATCT TATTTATGAA AAGAATCTGT AAGTTTCATC AGACTACCAG
28141 AGCATACCGA AGACTGAAAA ATTTTAAGAA TCCAAACCTT AATGGAAATG TTGGAGGCTG
28201 CCCAATTAGG TTCTGAATTC CACCTTCCTG AATCACAAC TTGTTTTAAC TCTCAGTCTG
28261 AGGTAAACTA CGTTTCTCTT TAAACAGACA TAGTTTAATT TTCCTTGAT TTTTGATTTA
28321 GTATTCTTAC TGATCATCAT AAATAACCAA TGCTAATGTT AGTCTACTTT GGACCATGGT
28381 ATTTTCAGAA ACTTTGAACA AAGTCCCCTG CAAAACATG CATTGCATTA TTTCACATAC
28441 ATTTATGTTT TCCAGACGGT TCAATAGTAC CTCACTTTTT TGAACCTATT TGTATAGTTT
28501 GGCATCTTTT TAAAAATTGT GTCCTATAAT GAAAGGTTGT AAACATTATG TTTTAAATTT
28561 GTATAGATAA AATCAACCAC AGACCTTTCC TTGCTTGAT GTAATTGCCA TTGTTTCCCA
28621 ATGAGTTCGG AATTACTAGG ATTGTGCAAA AATATGCCTC ACTTGCTGA CATAGCAGAG
28681 AGCCATTTTG CCTAAATGCT GTGCCCAGCA ATGAGCTGTC ACCAGATTCT CATCACATAC
28741 AGTGAGGATG AACAACTAGC CTCTCCCAGC AGCTGGCCGG TCTCTCAATA ATATGGGACT
28801 CCCTCAAGAT GGCTTCTGTC ACCTTTGCTC CTCTAGCCTT GTATGTATAC AAGGCTAGCA
28861 TGCCTGGCAT ACATAAGGTT AAAAACAAAA TCAATAAGTT ATGGTCTTC CTCCAGTTCT
28921 GGGGATTATT AGACCACTTT TTTGTTTTGT TTTGTTTTGG ATGGAGCCTC GCTCTGTAC
28981 CCAGGCTAGA GTGCAGTGGC ACAATCTCGG TTCAGTCAA CCTCTGCCTC CTGGGTTCAA
29041 GCAGTTCTCT GGCTCAGCCT CCCACGTAGC TGGGATTACA GGTGCCCGCC ACCACGCCCG
29101 GCTAATTTTT GTATTTTATG TAGACGGGGT TTCACCATCT TGGCCAGGCT GGTCTTGAAC

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29161 GCCAGACCTC GTGATCCACC CACCTTGGCC TACCAAACCTG CTGGGAATAC AGGCGTGAGC
29221 CACCGCGCCC GGACTTAGAC CACTTTGTTT TGGCCAATAG GACAACAGCC ATAGAACCCT
29281 CCGCAAATGA GAGCTTGTCCTA AAGATGAC TTTATTTACA TAGCTGTGTG CCGCATGAGC
29341 CAAAAGGTGA TAACCTTTGT TCAACACGCG CCTCCAGCCC TTCGGTTAAG TCCAAAGTAC
29401 CATTCTTAGA ATGCTCTAAA ATACATAATT TTTTTTTTTT TTTTTTTTTT TTTTTTTGAG
29461 GAGTCTCTCT CTGTCTCCCA GGCTGGAGGG GAGTGGCGCG ATCTCGGCTC ACTGCAATCT
29521 CTGCTTCCGG GCTAGCTGGG CCTACAGGTG CAGACCACCA CGCCCGCTA AGTTTTGTAT
29581 TTTTTTGGT AGAGGGGGTT TCACCATTTT GGCCAGGCTG GTCTCGGATT CTTGATCTCA
29641 AGTGATACAC TAGCTTTGGC CTCCCAAAGT GCTGGGATTA CAGTCGTGAG CCACTGCGCC
29701 CAGCAAATG CTTTTTGTGG AGCCAAATCAC TTTATTAGCG CTTACCTCTC TATGCCTACT
29761 TTATGCTTTG AAATTTTGTC ACAGTGTGGC CGGTGATGGC AAACACAATT CATTCTTATG
29821 CAGGATGTCA CGGTTATTTT TGTCTCCAA ACTCATTCTC GCAACGCATT TCAGCTCTTT
29881 AAACGACTTT GTGAGCGGCC CTGAAAAGGG CCTTTGGGTT TTTTTGTTTT TGTTTTTTGA
29941 AGTTCTCAGG AGACCGCGTA TTCTTAGATT CAGCCGCCGA AGCCATACAG AGTGCGCCCC
30001 TGACGTTTTA GGGCATATAC TACATCCATG GCTGTGACAG TTTTGGCTT GGCCTGCTCC
30061 GTATAGGTGA CGGCGTCTCG AATAACGTTT TCTAAGAAA CCTTAAGCAC ACCTCGAGTC
30121 TCCTCATAGA TAAGACCGGA AATGCGCTTG ACGCCACCGC GCCGAGCCAA ACGGCGAATA
30181 GCCGGTTTTG TAATGCCCTG GATGTTATCC CGGAGCACCT TACGATGGCG CTTAGCACCA
30241 CCCTTCCCCA AGCCTTTTCC GCCTTTGCCG CGACCAGACA TGATTCCTAT CGCAGTGGAA
30301 GGTATGAACT GAAACAGTTC CTTAAATACA AACTTGGCGG ACCTGATTGA AAACAACATG
30361 AGTTGGCGCG GTTTTTTTTT TTTTCAAAT TTGGTCACCA AGTGGGTGGA GCAAGAAAAA
30421 CTGTTTCATT ATGGTTCATT GTTTGATTG GCCAGTGACA GCTTGCTCTT TGTGGGAGTG
30481 GAAGGGTGTG TGCAAGTTGA ATGCGCTGTA TTCCTGTCAG CTTAATGACG CTAAGCATAG
30541 CCCCATTCCA CATTTCTTTT TATTTCCACT TGCTAACTAA TAAATTACGG AATAGTTTAT
30601 TGGGGAACAT ACAATAATG TTTAAAGGAG GTCAGATTTA TAGGTCAAGG GATTTACCCT
30661 CCAATCATT TTAATATTTT TATTTAAACC AGGCATTTTG ATGGCCTTCT CTGTGCTGGA
30721 CAAGGTATAA GTTTGGCTAT GAAGTTTCAC TCCTAAAGAC CCTATGTTTT GGGAAGGCAA
30781 AAAGGTAGCC AAATAATTGC AAATTAACAC CTCATAAGTG CAAACTTCTT CCTCGTCACT
30841 TTCCCTATCT CGATTCAAAT ATTTGTTGAA TGACTCATT TTCTGCAAAA GTCTGAGAGA
30901 GACAGGGAAT ATAACTTAA GTCTGGATAA TATGTTTTCC CGGGACGCTC TTCTGGTCT
30961 GCTGTGCCCTG TTTGCTGTGC CTGAAATTC AAACACTCTT CCCTTCCCTC CGTTTTTAAT
31021 CCCCTTTCAA CTTGCTACAG CTTTAGAGAA AAGAACATTC GTTTGTGACA GTTGGGGATT
31081 AATTGAAGTG TAGGGCTAAT ACTTGATTAA GGTCAATTACA AAATCTACAG GGTCTTCTC
31141 TGGGAGGTTT TTGTGATAAG ATTATTGGTG TTAATAAAG GCTAATCCCC TTGAAAAATA
31201 AATAGAATAG CAGAATTGGG TCTGAATGTG GTTTGAAGAA AGGGACTTCT CAATTCAAAA
31261 TTTTATTCTT AGCTTCCTGC GGGAGCTTTC CAGAATGCCC ATAAGATCCA CTTTTGTTTA
31321 AAAAACAAAA ACAACCCAC CCACCCTCT CTGGTTAATA AATGAATTTT TATTGGGAAT
31381 ATTTAGAATG GGGCTGTGGC CTGTGAGAGA CATTATATAG TAACCTCAGA CTTGCTCACA
31441 TGAAGAGAAG AAATCCAGGA ATGGAGAAAA AAGACCCAGG AAAGGCCAGA ATGCTCTACA
31501 TGTCATATG TTTGTATCAC TTCTGAAATA ATTGATTACA TTCTTCTGCC CCAAATTGAG
31561 TTCTTAGGTT CTTCCTCACTA CTGCTCCACAT GCCACAACAC AGACCTTATA ACTAGAGACT
31621 TAGCTAGGAA GAAATGTCAA ACATTACAGA GAAAAAATGC AGAGTCTGAG ATCATAAGTA
31681 AAACCTCTGAA ATCTCAACAT GCCTTTTAAT TCATGAAAAT AAAAAATATA GCAGCATATG
31741 CAATATGACA ATTCTCTGAA AACATACATC ATGTGAACTA CCCTGGAACA CATCTCGCCA
31801 AGTGCCATCT TCATTTTAAC CAGAGGTCTA GGATGCCTTT CTTTTATTTT GCCTATTATA
31861 TCATTTATAA AACCCCATTT TTATTTTGAT ATTTATTTA CTTTCTATTT CCTGCTCCTA
31921 ATATCTCCTT TCTAACTTT TCTCAATGAC AGTGACTCAA AAACAATGAA TGTGAGAACA
31981 AATATTTAAA GGATCTGTAC ATGTAGATAT ATATATTTAA AATGGATTCT TCCACTCTGC
32041 GAAGAATTCA GGCATACTCA ATCTTATGGT TAGGGAGAGA TTAGGCTCAC TCGCCTAATC
32101 TGTATGGCTT CTCGTTTCGCT TTCCATTTCA CCTTCTCTC ACCCATCAGA TCAAATCAT
32161 TCATTGAACA AGAGACCTAA GCCCTTCAGA TTAACACTCT GCAACAAGT TGTGGTTGAG
32221 AGGATACATG AAGCATTCAA ACAATAAAT CTATGATATT AATCAGAGGT TAATCTATGA
32281 TATTAATCAG AGGTTAATGC AGTGGCTCAC GGCTGTAATC CCAGCACTTC AGGAGGCTGA
32341 GTTGGGAGAA TCGCTTGAGC TCAGGAGTTC AAGACCATT TGGGCAACAT AGCAAGTCTT

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32401 CATCTCTACT TAAAAAATAA TAACCAGAGG TGTTATGAAA ATATAAATTG TCCAGAACTA
32461 CCCTCCACAA ACTAACTCTC TCAGAATATT CGATATGAGG AATGAAATAT GGTGTGTGTG
32521 TGTGTGTGTG TGTGTGTATG TGTGTGTGTG TGTGTGTGTA TGCACCTATA TATGGCACCT
32581 ATATATTCAA CAAACAATTC TGATAATTGG CCAGGGTTGA GAATGACTAG CAGCCCAGCA
32641 TACACTATCA GTTTTAAGTA TATAATTGCG CTTTAGTAAA ATGTAAAGAA ATCCCAGAGT
32701 AGAAATACTT TTAAGCTATA TTACAGGTGA GAAAATGCAT AAGTATAGTC TCACCCAACT
32761 TAGACTATGG GGGCTTTATA ATGTCACAAC AGTTGTTTCC AGGCATTTGG GGACATCACC
32821 ACTGGTCTTG GGCAAGAAAC TCCTCTAGCC AATGGCTGAT TTATCTCACT CCCATCTAAG
32881 GCTTCACTGC ATTTCTCTTT TTCAGCAACC TAACTTATTT AAAAAATATCC ATTTTCTGAT
32941 TCATTTTTTT CTGAATTAAA CTGTCAGTAC CATTGGCACA CCTTTGGTTC CGTAGCATAC
33001 CTGTGTCTCT GCTGTGTTTT TTTTACCT CCACTCCTTA CTTTTCTAGA AAAAAATCTC
33061 TGCTTTTTCT TTTCAAGTTA AATTATTTCA CAAAAAGTTT TCTTGACTTG CACTTCCTAG
33121 GCTTGCTGTC CTTGTGTGGG CACGCTCCCA TAAACACTAT TAATACACTT CGATTGTGTA
33181 AAAATAAAGA TATCTGGACA GAAAATTTCT TTTCTTTTTT TAAGATTTTA AAATTTTAA
33241 TGTTTATTTT TTTCTAGAC TGGAGTACAG TGGCACCATG ATGGCTCATG GTAGCCTACA
33301 CTTCCCCGGG CTCAAGTGAT CCTCCCACCT CAGCCTCCCA AGTAGCTGGG ACTACAGGTG
33361 TGCACAACCA CACCTGACTA ATTTTGTGTTA TTTGTTTGT TTTGTTTTTG AGATGGAGTT
33421 TCGCTCTTGT TGCCAGGCT GGAGTGCAAT GCGGGGATCT CGGCTCACC GCAACCTCTAC
33481 CTCCCAGGT CAAGCAATTC TCCTGCCTCA GCCTCCCGAG TAGCTGGGAT TACAGGCATG
33541 CATCACCACG CCCAGCTAAT TTTGTATTTT TAGTAGAGAC GGGGTTTCTC CATGTTGAGG
33601 CTGGTCTGGA ACTCCTGACC TCAGGTGATC TGCCCGCCTC GGCCTCCCAA AGTGCTGGGA
33661 TTACAGGCGT GAGCCACCAC GCTCGGCCAC TAATTTTGTA TATTTTGTAG AGATGGGCTT
33721 TCCCTGTGTT GTCCAGGCTG GTCTTGAATT CCTGGGCTTA AGTGATCTGC CCACCTTGTC
33781 CTCCCAAAAT GCTAGGATTA CTGGCTGAG CCACCAGGTC TGGCTGGAAA GATAATTTCT
33841 AACATTATCC TCTCTTAAAC ATTTGTTTCA AAAATTTTAC AAACATGAGA GTAATTAAT
33901 TTGATTTTCA AAATTCCTT GAATACTTTC TTAATAGCAC ACAGAAAGCA CAAAGTATTT
33961 TACATTTGTT TTAATGATGA AATTGTGAAC CCAAACCTAC ACAAAGAAA ACCCGTAACA
34021 TTATACCCAT ACTTAAACA GATGCCCTCA TATACATAGT AAAACTCTTG GGGGCAGTAG
34081 TGAAGTTGGT TATTTACTGT TTTATGAAAG TGCCATTCAG CCGGGTGCAG TGGCTCATGA
34141 CTGTAATCCC AGCACTTTGG GAGGTCGAGG CAGGCTGATC ACGAGGTCAG GAGTTCAAGA
34201 CCAGCCTGAC CAAAATGATG AAACCCTGTC TCTACTAAAA ATACAAACAT TAGCTGGGCG
34261 TGGTGGTGTG TGCCGTAGT CCCAGCTACT CAGGAGGCTG GGGCAGGAGA ATCGCTTGAA
34321 CCTGGGAGGC GGAGATTGCA GTGAGCCGAG ATCGCACCAC CGCACTCCAG CCTGGGAGAC
34381 AGGGCGAGCT CCGTCTCGAA AAAAAAAGTGC CGTCATAGTG ACTCAGTTTTT
34441 AAGGAATAAA TCAAGGATAT TTAACCTAAT AGACTACAGT TAGCTAACGT GACTTGCACT
34501 GAAAGTTATA CGAATATTGG TACTTATTCC CCTGCCCCTG AAGTATGAAT TAAAGACTCC
34561 AAAATTCCTT TTAGAATCTT CAGAGTAAAA GCTAGAATTT GATTTTTTTA AATAATAAAA
34621 AAATACTTTG TATCTAAATC TGGTGTATAA AATAACTTGG TGGATGATGC TCAAGGCTA
34681 TCCATCCCCA AATTTCTCCC TGAATGATAA AGAGAATAAA TGAATATGTC AATTCAAAAG
34741 TTAGAAATTT GGCCGGGCAC GGTGGCTCAC TCCTGATAAT CCTTTCGGAC GCTGAGGTGG
34801 GTGGATCGCA TGAGCTCCGG AGTTCAAGAC CAACCTGGGC AACATAGCCA GAACCCGTTT
34861 CAATAAATAA TAGAAAAAAA TGAGCCAGGC GTGGTGGTCC CAGCTACTCA GTAGGCTGAG
34921 GTGGGAGGAT CACTTGAGCT CAGGAGGTG AGACTGCAGT GAGCCGTGAT CGCAGTACTG
34981 CACACCAGCC TTGGTGTGAG ACTGAGACCC TGTCTCAACA ACAACAAAAC AAGTTAGAAA
35041 TTTGGCTGGG CGCGGTAGCT CACGCCTGTA ATCCCAGCAC TTTGGGAGGC CAAAAAGGGC
35101 GGATCATTTG AGGTCAGGAG TTCGAGACCA GCCTGGCCAA CATGGTGAAA CTCCATCTCT
35161 ACTAAAAATA CAAAAAAAT TAGCCGTGCA TGGTGGCATG CGCCTGTAGT CTCAGCCACT
35221 TGGGAGGCTG AGGCAGGAAA ATTGCTTGAA CCCAGGAGGC AGAGGTTGCA GTGAGCCGAG
35281 ATCATGCCAC TGCATTCCAG CCTGGGTGAT AGAGTGAGAC TCCATCTCGA GAAAAAATAA
35341 AAAATCTGT ATGAACTGAA CAAAATATCC TTAATTTTA AAATACATCT GAAAGATATT
35401 TCAAAATATT TAGGAAAAAA ATTATAGGGA TCAGGCAAAT TCTGAGATT CTTTTTCCCT
35461 GCAGCAAACA TTAGGAGTGC TGCTGTTCTT AAAACATGG TAACGTGTC CACACCGTAT
35521 GTTTCCTTGG CTCAGACATA AGGTTGTGTA GTTGTATTTC CAGAATAGCT AGAATAAAAA
35581 TCCAGCACAT CATTTCTTTC AGCAAGTTAA CTAACCTCTC TGTGCCTTGG TTTTATAACA

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35641 GCAACATAAG CATAACAGAA TAGCAGCAAT AGCTCCTACC TACCTCATAA GATTCTTTGG
35701 AGGAATTAATAA TTAAGATTCA GAACACAGCC TAATATCTAG TAAGTAATAA TAATTGGCTA
35761 AAAAAATTTT CTTAAGATTA TATATATTCA TGGGGTACAA GTACAATTTT GCTACATTAA
35821 TATATTGCAT TGTGGTGAAA TCAGGGCCTT CAATCCATCC CGGAAAAAAA AAGTTTTTGA
35881 AAAGATTTCT GCCATGGAAA ACTTTTAATG TACAAATTCA TCCATCCAAG AAATAGAAAA
35941 TATATAAGTA TCAACTCCAA ATCCACCATA TCTATCTCTT CTACACCTTA AACAATTACT
36001 CAGAAATAGA ATGCTTGAGA TACCAGAATG CATGCATATC AAGTAATAAA TGCATGCAGG
36061 ATGTCAACGC ATCCTAGGCT TTCAAATAAA ATTGTCATAC AAAATACTTT AATATTGTAG
36121 TAACATTCTA CATGTTAGAG TGTAAGAAGT AATCGCTGAT GCAAAAAAGG AAAAGAACAC
36181 ATTATACCCA AAGCCTACAG AGAGAATCAC AATTACAAAT ATCAGCCTGC ATGTGAAAAT
36241 CTTTAATTTG AAAGTCAGAA ATATTTAAAT GATAGTCATT GTTAAATCAG ATTGTGGTTT
36301 GAAAAAAGT TAGTTTAAAA CTGAGTTTAT GAAAAATTTG GGGATTTTAG AGACAGTGTT
36361 TTGTTTTTAA ATGTGTGTGA GTTTGTGAAG AATGTTTTAT AAAATACTGA CAGTATTATA
36421 AGATGACATT ATTATAATAC AACATAAGAA TTTTGGCCTG TACCTCTCAG CAGTCTCAA
36481 TCACCTGCTG TACTTGACTC AATGATTATC AGAGTGGTTT GTTTTCCTTC TGTGTGTTT
36541 CCAGTTCAGG CAGCTCAGCA ATGGCCTGTG ATTCCAGCAA TTCAAATAGC TGGTAAGTAG
36601 TTTCTTGTTT GTTTTCTCAA ATTTTCTAGG GCTTTTCTCT ACAAGTGATT TCCAGTGCAC
36661 GCCCCCTCCAC CCATTCTTTA TTCCTTTACC TTCAGGAAAA CCTCAGCGC TGCATCTCTG
36721 GTCACCGGAC CACCGTGGTA CATTTACCTA TGGCCACCAG GTGTCACCCT TCTCTTTACT
36781 ACCATGGTTT GTGAATGGTT TTGCCAGAGG TGAATAAGAA TTTAAAATGC AGGTCTTTGA
36841 TTTTTCAAAT GTAGTTGACC TTAAGAATTT ATGAATAAAG CCAGAAAAAT TAAGCTTAAA
36901 AAACACCGAA AGAAAATGAG GACTTAAAAT TTCTATTAAA AAAATTAACA GGCCACAGTT
36961 GCTGATGTTT AGTAAATGTG TTAGTGAAAT GTGTTACTGT GAAGACTGGG GTGTTTCTTG
37021 AAATCTCAGC CCAGGTGAAA TAAAACCAAT ATAAAACAAA TGCTTACCTA ATAAATTAAT
37081 TGTAACATAT TCCTTATGAG GTAGAAGAGT AAGTGAAGCC TTATAGCAGT CTGCTTTCAG
37141 TATAGTAAGA TATTAAGAGA GAAATAAATT GTCATATGCT TTCAGAATGG TTTGCTGGTA
37201 AAATAACCAA TGTCTTACAA CTTAGACGAC AATGTCCCTA GAGTGAAGAA ACACGATTAA
37261 TTCGGCTACC ACAGTTGAAT GAAAATATTC CGTAAGACAA AATGTAAAGA AATTAGAAGC
37321 AAAATAAATG TCTCCAAAAT GACAAAGCGA TTAAGTATAT ACACAAGATG AACAAGAACT
37381 TCAATAAAAT CATGCAGTAT ACAATACAAT ATACATTTAT TAAAGTATAT GCATTTTTAA
37441 TGCAACAATA ATACTAACAG GTAATAGACA AGTTGTTAAT AGTTTTTCAC TGGCTAATTA
37501 AATAACAGCT TTAATTGTAT TCATTTTATA GCTTTTCTAC AATGAGCGTA AATCACATTT
37561 ACTTTTTTCT ACATAACTTT TCTAACCCA AAAAAAGAAA ATGGTTTTAA AGAAGAGATG
37621 AGATATCTTT GCTAAAATTT AATGCTTAAA GAAGAACTT CTGAGCTGTA TATGGTATCC
37681 TGAAGCACCT GCCCTTCAAG ACAGAATGCT TGTACCACAT TTATGCAGCC AAGTCTATGT
37741 AGTAACATAA AGTAAACACA TGCCATCTGG ATATATATAT TAAGACTCTT TTGACGGCTG
37801 GGCAGGGTGG CTCACACCTG TAATCTCAGC ACTTTGGGAG GCCGAGGCAG GCGGATCAGC
37861 AGGTCAGGAG AGTTCGAGAC CAGCCTGGCC AACATGGTGA AACCTGTCT CTACTAAAAA
37921 TACAAAAATT AGCCGGGCAT GGTGGTGCAC GCCTGTAATC CCAGCTACTT GGGAGGCTGA
37981 GACAGGAGAA TCGCTTGAAC CTGGGAGGCA GAGGTTACAG TGAGCCGAGA TCATGCCATT
38041 GCACTCCAGC CTGGGCAATA GAGTCTCAA AAAAAAAGG AGACTCTTTT GAACATGGTG
38101 AACTGATTTT CCAGAACTTA GCAATTCCTG AATGTCCTGG TTAGATTTTT TTTTTAATGT
38161 GCACCGGAAC CCCAGTGGCT CCATGGAAGG ACCTGGGCAT CCTCTAAGCC ACTTGGTGGC
38221 TTCCATTATA CCATCTCAA ATGAGAGAGC TTACTCCACT TCATTGAGGG AAATACCACC
38281 AGAGTTCTGA CTCCAGAGGC ACTGGCCTAG GGAGGACACC GTGTGTGAAG CCCAGCAGGG
38341 CCACTAGCTG TCCCCACCA TTACAGTCCT TGCCTAGGGT CCAAAGAAAT GAATGCCAAA
38401 GAGAGCAACA GAGGAGCAAG GGAGTCACAT TCCAGGACCT TCCTTCAGGG ACTTTTAAAG
38461 GAAACATGAC AGCTGAGGAT CAGTTGGTTG TTTTCTGCTG TTCCCTTCA TGTGATTCAA
38521 GCTCACTCAG AAGAAACACA ATGAGACAAG AGAAGAGCCA TCTCTTCTT TCTCTATTTA
38581 TTCTAGGCAT CTAACTACT GAATGTAGTG GTGCTGAGA TGTATCAAAC GGTCAGATTG
38641 ACTGAGTTTG AAACCTGTTT CTATCACTGA CAACTATGA GATACTCTAT ACTTCACTTT
38701 CTTTTTTTTT TCATTTTTTT ATTTTATTTT TTATTTTTTT GAGATGGAGT CTCACCTGT
38761 CACCTAGGCT GGAGTGCAGT GGCACAACT CGGCTCACTG CAAGCTCTGC CTCCTGGGTT
38821 CATGCCATTG TCCTGCCTCA GCCTCCGAG TAGCTGGGAC TACAGGCGTC TGCCACCACG

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38881 CCCAGCTAAT TTTTGTATT TTTATTAGAG ATGGGGTTTC ACCATGTTAG CCAGGATGGT
38941 CTCGATCTCC TGACCTCGTG ATCCACCCGC TTGGGCCTCC CAAAGTGCTG GGATTACAGG
39001 CGTGAGCCAC CGTGCCCGGC CTA CTTTCACTT TTCTTCATTT AAAAAAGAAA TGGGGATAAT
39061 AGTACCTATC TCATAGAATT ATTGTAAGAA GTGCATGCAG TAATGCATGT AAGTAGGTGC
39121 TCAGAAGAGT CGGACACGAA GTAAGTGCTT TTATCATCCT TATCATAATT TTCATTATCA
39181 GAACAAGGAG AGACCAGGTA GAAAATTATT GTGATTCTTC AGGTCTGGAA TACTAGAGTA
39241 GCATCCCAAA TGAAGGCACC ATTAACCTTT GCAAATCTGT ATGACACCTT CATGCCAATT
39301 AGAAAAACA CCTCTTCACA ACCCCTTTCA AGATATTTGC CTCCTACCTG CTA AAAACAC
39361 CCATCATACT ACCCACAGAT AGCCATGATG CTTTTTCTGG GACAGGTGCC TCTTCCATTC
39421 GTGCAGTGTA CAGCCTTCAT AGCTGTGCAA CTCACATCAC AATCAGATGG AAGAATCCCC
39481 AAGGCTTGGT GACAGATGAG TTA CTTGGGTA ACACAGAGAG AGGATTCAAA GGAAAGTTG
39541 AACGGGTCCA GAAAATGCAT AGATACATGT GTAAAAATCT GGTAAAGGTTA TGACTAGCCA
39601 CGTCCCAGGG TTCAAAGCTT TTCTCAGATG TTA AATGAA TCATGTAAGT CCCCCAATT
39661 TAAGGAGTCC TCTTCCAAA ATAGGAAATG AAATGACATA GGTGTATGTC TCTGAGGTGA
39721 CGGAGGAAAT GAAGGAAGCC TCTAGATGCA GCTTGAGGTT CATGAGAGAC AGTTCAGGG
39781 GAGAGGTCAC AGCTAGGGAT CACCGGCATG CAGGAACTCA GAAACCTAAA TGGGAAATC
39841 TTTTGTAGGA AATGAACAGA GAAGGCTAAA ATCAAGGAGT TCGTCAGGCA ATTTCTATGT
39901 TTAGGTTCAA CTCTCTCCTG AAACATGAAG AGCTCATAAA TGCACTCCCT CTTTGAGTCT
39961 CTAGTTTTGT CTCCTTCCCA CAGTGAGTCT GCAGGCTGCG TGTCACTCAC GTTCAGCTAA
40021 GACGTAGTGC CCCATGGCTC CTCCTGTGGA GACAAGAGAC CCAGGAAAGA GGCATCACAA
40081 ACCTAGGCAC CATCTTGCCT CTTCTCTCTT CTTATTTTC CTCATTACC CATCTCAATT
40141 TAGACCTGGG CACTATTGGA TTTCAAGAAC CATTATCTCT CATCTGAAA TGCTTATTGG
40201 CTTTCTAAT GGTCTCCTCA CCTCTCATCT AACTTCTTAA CAACACATTG ACCATATAAG
40261 GGAGATCGTG GTCCTCCTT CTTAGGATCC TTCAATGACA CCCCAGTGAT CATAACCCAA
40321 TATCCCAAAA GACCCTTGA CTCTGTATGA GCTGGCTTCT TTCTGATTCT CTTTCCCTA
40381 CACCACAGAT GTTCAGGGGG TAGAAATGCA TAATTGGTGA GTGATAGCTA CGCAAACCTCA
40441 GGGTTAAGGT ACAGTAATTA TTTCTAATCT CCCAGTATGC CTTATACTCT CCTACTTGGC
40501 ATGGTTGCTC CGTCTGTGTA GACCTCCCAT CATCTTCAAC CTCACCTAAT GGAATCCAGC
40561 TTCTCCTTCA AGATCCAGAA GGCTATCTTG ATCCCCAGCT GAATGTGATC ATTCTTTCCT
40621 TTGACACCTT AAGCATTTGC TTCCTGCCTG CTTTAGGACC TCATGGGGTC TTCTTTAACT
40681 ACATTTACTT GCTATCAATT TCATTCCCTA CCAGATTTGG GTTCTGAGAA TAGCCACAGT
40741 GACTTCTCAA CCTCAAAGCC CTGTACTAC CTTAAACAGC TCTTGCAAAA TAGTAGGTGC
40801 TCTGAAGATG TTTGTTGAAT TTAGAGCTTT CATTCTGGGG AGAACCATA TTTTCTGTCT
40861 CCCAGGGAGC TGCTGGTGTC CCCAAAGAAT ATAAATGAGA AAAATGCTTC CCATGGATGC
40921 CAGATCCCCT CTGCCCTCT TCCCACTGTG CCCTGGGGCA GAGGTACTAA GAGACTTCCC
40981 CCTTGTTTCT ACTCACTTGA ACCCTGCCTC TTCCTTAATA TTATGAACAA AATTCCAATG
41041 AACAGATGA CGACAAAAC AGCAATTCCA CTGATGACTC CAATGACTAG GGTGCCAGAC
41101 GGTGAGGGCT CTA AACAGA AAAAGCAAGT TAAAGCCTTT GATTGCCACC CTCAGCCCAC
41161 CCCCTAACAA AGAGCAGATC CTCATCTCAC TGCCATAATT ACCTCCTCAG GCACTCCTCT
41221 CAACCCCAA TAGATTTCT CAGCTCCTGG CTCTCATCAG TCACATACCC CAGATCACAA
41281 TGAGGGGCTG ATCCAGGCCT GGGTGCTCCA CCTGGCACGT ATATCTCTGC TCTTCCCCAG
41341 GGGGTACAGC CAAGGTATC CAGCCCTGGT AGGTCCATC CCCATTGGGC AATACGTCTT
41401 TAGGTTGAA CTCCTTGGCA TCCATTGGCT GCTTATCCTT CAGCCACTTC ATGGTGATGT
41461 TCTGGGGGTA GTAGTTCAAG GCCCGACACC GTAGAGTGGT CACTGAAGAG GTCACATGAT
41521 GTGTACCTT CACCAAAGGA GGCACCTGAC AGGAAAGAGG AAGGATGAGG AGAGGGGATC
41581 TGTTTACCCT TGCCAGGAAG ACTGGAACCT TCACTTCCTT CTATAGGTTG GAGGAAGGAA
41641 ATACCCTTTT CAGAAAAAA CAAGCTACAG GAGAGACACC ATTTTGTGTC CTAAGATTGG
41701 ACTCTAACAC AGTGTCACTT GGAGAGCAGT CAGATCAGCT TGTTCTCCTC ACATGTAAAT
41761 ATACATATCT GTTACCCATG TTCTTTGTTG TGATAGATAA AATTGCCCTT TATGTGCATT
41821 GAAATGATT GAATACAGAT GGTCACTTTC ACCTGGGTCA ACCTAGGAGG CATTGTTATA
41881 AGAAGCGGAC TTGTAAGATA GGTAGCTTCA GTGATTATTG CTATGTTCTA TGAAAGAAAC
41941 TTTTAACCTA AAGGATTCTT CTA CTTCTGAT AAGTGGCCTC ACTTGATATT TTGTCTGGT
42001 ATTCATATGA TAGCTGAGAT CTCTGAATTC TCTTTTTTTT TTTTTTTTTT TTTTAAAGAT
42061 GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT CAGTGCAACT

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42121 TCCGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT GGGACTACAG
42181 GTGCGCATGA CTGTGACCAG CTAATTTTTT TATTTTTTTA GAGACGGGTT TCACCATGTT
42241 GGTCAGGCTG GTCTCAAACCT CCTGACCTTG TGACCACCCG CCTCGGCCCT CCAAAGTGCT
42301 GGGATTACAG GGGTGAGCCA CCGTGCCCGG CCTTGACATT TCTGAATTTT TAACAGGTAT
42361 AAATATACAA AAGATTATTG GTTAAATAAA AAGCAAGGGC CATAGACACT TCCCTTTGAG
42421 CCATATGCAT GGAGAAAAGA AATTAAACCC ATGACTTGTG GCTGTCTCAT ACATCTCAAT
42481 TATAAGGTAG AGACTCTAGG ATTGAGAAAG TCCCTTCCCA GAATTTGGAG AGGCACACAG
42541 CCTCAGCCAC CTCTGAAACT CCAACCAGGG ATTCCGTGCC CTGCAACCTC CTCCACTCTG
42601 CCACTAGAGT ATAGGGGCAG AAGTGTGTTT CCACCATACC TTGTTGGTCC AAAACACCTC
42661 TCCCCAGCTC CAGCAACTGC TGCAGCTGTG CAGGGCAGTC CCTCTCCAGG TAGGCCCTGT
42721 TCTGCTGGC CCGAATCTTG TGCCTTTCCC ACTCCAGCTT GGTGGGCCAG GCCCTGGGTT
42781 CTGTGCTCT CCAATCCAGT GTGTCAGGGC AGAATTCAAG GTGGTCTGTC CCATCATACC
42841 CGTACTTCCA GTAGCCCTCG GTACTGTTGT CTTCTTGCAT TTCACAGCCC AGGATGACCT
42901 GCAGGGTGTG GGAATCTGGA AAAATCCCCA GCCTTGTTAA CTGCAACCAA AGGAATAGGT
42961 CCCTATTTCC ACCATCCCCA AGGACCAAAT GATCTCAGGA AGCAAATTCC TTCCCTCTTC
43021 CCTGCTCCCA CAAGACCTCA GACTTCCAGC TGTTTCCTTC AAGATGCATG AAAAGATGAA
43081 AAGCTCTGAC AACCTCAGGA AGGTGAGGCC CCCTCTCCAC ATACCCTTGC TGTGGTTGTG
43141 ATTTTCCATA ATAGTCCAGA AGTCAACAGT GAACATGTGA TCCCACCTTT TCAGACTCTG
43201 ACTCAGCTGC AGCCACATCT GGCTTGAAAT TCTACTGGAA ACCCATGGAG TTCGGGGCTC
43261 CACACGGCGA CTCTCATGAT CATAGAACAC GAACAGCTGG TCATCCACGT AGCCCCAAGC
43321 TTCAAACAAG GAAAGACCAA GGTCTGCTC TGAGGCACCC ATGAAGAGGT AGTGCAGAGA
43381 GTGTGAACCT GGAGACAGAG CAACAGGCCT TAACCATGTG TAGTAGGAGG GGAGCAGGAT
43441 GTTGAGGCTC CACACACCTG CATCAACTCA TACCATCAGC TGTGTCTGGT CCTCATTTTG
43501 TGAAGGGTGA GTTGCACTCC TGTCTTTCTT CCATATGACA GTCCTGGGTG CTCTTTCCCT
43561 GTGTGCTTTT CTCTGCCACA CGTGGCTGCC ACCCCCTCAC TGCCCCCAGA TCCTATTCCA
43621 ATACTCATGA TTAGACAGAC TCCACTAAAG CTGGTGGATT CTAGAAAATG TTAAGGTGTG
43681 TCTAGCCATG GTAGTTGAAC TCAGGAGTTG GTGCTCAGGG CAAATTAGAC CCAAATCCTG
43741 AGGAATAATT CCTTCAGTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTAGA CAGAGTCTCA
43801 CTCTATCACC CAGGCTGGAG TGCAGTGGCA CAATCTCAGC TCACTGCAAC CTGCACCTCC
43861 TGGGTTCAAG GGATTCTCCT ACCTAAGCCT CCTGAAAACC TGGGACTATA GGCGTGCGCC
43921 ACCACACCAG GCTAATTTTT GTATTTTTAG TAGACATGGG GTTTCACCAT GTTGCCCAAG
43981 CTTGTCTCAA ACTCCTGACC TCAAATGATC TACCTGCCTC AGCCACCAAA GTGCTGGGAT
44041 TACAGAAGTG AGCCACCGTG CCCAGCCTTG GTCCTGAATT CTTACACTGA ACTGCCATG
44101 TGGCCTCACC ACTTGGAAGC CTGACTGGAA TCTCAAACCT AACATGTCCA AATGCAGATC
44161 CTTGATTTAC CCAAACCTGC TCTTTCCTCT GCCTTCACCA TCTCAGAAAT GGCATTGCCA
44221 ATTACCCAC TGCTCAGGCC AATAAAATTA AAATAAAGAA CAAAGTCAAC TTAACTCTT
44281 CTCTTTTTC GGGGGTCAGG GGAGACAGGG TCTTGCTCTG TCACCTAGGC TGAAGTACAG
44341 TGGCACAGTC ATGGCTCACT GCAGCCTCAA CTTCTTGGGC TCAAGCAATA CCCTCCACCT
44401 CAGCCTCCCG AGTAGCTAGG ATCAGAGGTG CATGCCACCA CACCCAGCTA ATTTTGTAT
44461 TTTTGTAGA GAAGGGGTTT TGCTGTGTTG CCCAGGCTGG TCTTGAACCT CTGAGCTCAG
44521 GAATCTGCTC TCCTTGGCCT CCTCCTTGGC ATGAGCTACT ACACCCAGCC AATCTTCTC
44581 TTTCTCTCAC ACAACATAGA ATCCTTCAGC AACTTCCTTC AGAATATATT CAGGAGACAA
44641 TGGTTTGTCA CTCCCTTTTC TGTTCACCC CAGCCCACTC CACTACCTCT TGCCTGGACT
44701 GTGTAACAGC TTCCTGGCTG GGCTCCCTGC TTTTACTGTT GCTCCCTTCA TTCTGCTTTC
44761 CACATAGCAG CCAGAGCAAT CTTTTAAAG CCTGTGACAG ATCACTGTTA CTCCTTGGCT
44821 AGAATTCACA CCACAGCCTA CAGGCGCCTG CACAACCTTG TTTGTGGCTC CTCTTCTGAG
44881 CCCATTACCT ACTTCTTGGC CTCTACTCCC CAGCACTACT TGTTTATTTT TTTCAACCCG
44941 AGCTTCTTAA CCAGGAGTTT GTCTACTAGG TGACATGTGG CAAAGTTTAG AGACATTTT
45001 GGTGTGCAAG ACTGGGGGAG TGCTCCTAGC ACCTAGTGAG TAGGGAGGAC AGGATACTGC
45061 TAGACATCCT ACATGCAGAT GGTAGTCCCC CTTCCCACCC CCACGCCGCC CCCCCCCCCC
45121 ACACACACAC ACATGAGTAG TGCTGAGAAA ACCCGCTTTT TAATCCAAC TGCCAGGCCC
45181 ACTCAGTTG CCTGGGAAAT ACTGCTCCCA GTCAATATCA TTCTTATTTT CTTCATGTCT
45241 CTGCTCAAGT GTCAGCCCCA GAGTGACTTG CCCTGACTTC TCTGCTTCTC ACAACACCCA
45301 TGATTTCTCT ATGTTGTATA TCTTCTGCT CATTTGCTTA TTGTCATCTC TCCCCTAGTA

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45361 ATGCAAAATA TCAAAGGGTA AAGACTTGTT TCCCTGCTCT CTCCCTTGGG GCTTGAACAG
 45421 TGCAACACAT GGCTGGGACT CATTTACACT TGTAACAAT GAATATTTCT GCTCAACATG
 45481 AAATTTTATT ATTCAACCTC TAATGCAGTG TGATGTTTAA GAATCATAGC TATGAAGTGG
 45541 AGACATGAGC TCTGCCACCA AAGCCCAGTG TACCATTGAA TAAATTTGCC AGGAAGCAGG
 45601 CCGTGCCATG CCTCATTCTT GTCATGTGTA AAATGTGGAT ACACGTAGTA CCAAACTCA
 45661 AAGTGCTGTG CTGAGGCCGG CGTGTGACCC ACAGAACACT GTGTACACT ACAGGGCAAA
 45721 ATCACTGTCA ACTAAGATTA GAAGCAGCTG TAGTACTTGA AATAACATCA GAAAACGAGA
 45781 TTATTTTATGT TCTTTGTAAC CTGAAAAGAG TTATATAATC TGAATTCCAG TTAACCTTCTA
 45841 GTAAATATAA CGTATTATTA GCTCCTACCT CCCTATGCCT AGTGAAATC AAATAAGATC
 45901 AGATATGAAT GTAACCTAGA AGTGAGTGCA TTGCTTACAT GTTCATTATC AGTACTTTGT
 45961 AGAGAGGCCT CTTAATTACA CAGCACATTG CAAATCAATA AAGCCTAGCC GAAAAGAGAA
 46021 TTGTTTCAGTT CAAACGTTCA AAATAACAT ATACTTAATT TTCCAGGCAA AAGAACAATT
 46081 GCCAAGAGTG GGGAAAGGCC CGAGGTAGGC CTCTCTCAGG AGCCTCCCAC CCTAGAGACC
 46141 TCCACCCACG GTCTCACCAA AAGTGGGTGG AATGGTGAAG AATTCAGATC CCCAACGCCA
 46201 CTCTTTTCGCG CCCCCACCGC CCAACGCATT CGTTCTGAGG TGGAAACCCC GTGCGGATCC
 46261 TGCTGTGGGT TTGCTCAGCC TTCTCGGCAA GCACTCAGGG AAGAACTTCC TGTTTGGAGA
 46321 TGAAGTGGGA AAAAAGTGA CAGCTGACAT TGGAAATAAA CCCGAGTTCC AGGTTCAAGG
 46381 AGCCCCAGGC TTAGCTCAGC TCAAGTGAGG AACTACGAGA TTTATTTAAA AGCATTCTAG
 46441 TTGGGGGAAG GGAGTGGGCG GTTCCAAAAG TCACTCCGCA GAGCCGGGAC AGCCGGGGGA
 46501 GGGGGCAGGT CCTGGGGCGA GGGACCCCTA TCTGCAGTTC AGTGGTAGGC ACTCCCTCAC
 46561 GGGGTCTGGA CGCAGAAAGT AGGGAGAGGG GCTTGCAGAT AGGGTTGAGC AGGTCTCTCA
 46621 AAGTTAGCAA ACTCCCAAGC GCAAAGAAAA AGCTAGTTTC GATTTTTCCA CCCCCCGCGC
 46681 GCCCCCTAGTT CGCCCGCAGC CCTCGGACTC ACGCAGCAAG CGCCCTGCA GGACCGCGGT
 46741 CTGCAAAAGC ATCAGGAGGA GAAGCGCCGG CCTGGCTCGC GGGCCCATTT CCCCAGCTCT
 46801 GGCCGCACGT CCCCCTTAAA TCTCCGCTTC TTTTGGGGGG CGGGGAAACG GGGAGGCTC
 46861 CAGAAATCAC CCTACAGCTA TTGCCTAGGC TCAGGAGATG CCCAGTAAAA CTTCTGGTG
 46921 AAAAGCAACA GGTCTTTCAG AACTTTAGTT CTCTCTCTCC TACAGCAGAA GGTACCTGCT
 46981 TGTGAAACAC TAGGTGATCC AGTGTCCCCC TTGGTTTTTA AATCCTGAAG GGGTGTGTGT
 47041 GATTGGGGAA AGTAGCTTCG CAATGTTCTG ATCTGAACTT TAGATATTTA AATATTTATG
 47101 ATTTTCAAAA TTCAATCATA CATTTAAAAA TTTTATCTCA ACCTTAGACC AACTTATGTC
 47161 TTATTTGACT TAGAAATATA AAGCTTTTTC ATTTTGTGTT TTGATTCAAA TTAATTAAGT
 47221 CATAACATTA ACCAATTAGA TCCTACTGAA ACACCTTCCA CAGCCTTCAT AATTGAATTA
 47281 TCTGACAAGT GTTTCACAAA CTTTACAGTA TTGGGATTAT CTGGAGAATG ATTAACATA
 47341 TTGAGGCCTG CTCCTAACCC CAGACACACT GATTAAATGG GTAATTGTTA GGTAGTTAGA
 47401 CATTAGCAGT TGGGAGGGGA TGACAGAAGA GAGCGGAAAG GCTGTCACTA AGACAGCCAC
 47461 TGCCCCACCT AAATTCAGGC CCAAGACTAC CCTAATGCCA CCCTAAGGGA TGGAGTTTAT
 47521 GATAAAGTCT GTGGCCAAAA TATCCTGGAG AAAGAGAAAG GAGGGTACAG GTGGAAATTC
 47581 CCTAAGGTGG CACATGCCCC ACAACACAAA AGCCTGTCTT CAAGTTCACC CCAAGTTCAT
 47641 CATGCCATCA TTATAATAGA ATTTACATAC AGTTTTGCCC CCCCATCCCT GGGAGGCTTT
 47701 TCTTAACAAA TTATAGGTAA GACCATGCAC AGTTTAATTT TAGATTGTAT AGCTATACAC
 47761 TTCAATCAAA TAACATCATC CTGTCACTCA GATACAGCCC AAACCTCAAC TCCTCCCCAC
 47821 AAACCCCATTA AAAGCACCTT GAGCTCTGTA AAGAAGTGCT GAGTTCACCT CGCAGAAATA
 47881 AGCCCGCTGT CCCTCAGAGT GTATTATTGT GCTTCAATAA ACTTTGCTTT AAGCTTGCAT
 47941 TTTGGTGTTA GTTGTAGTT CTTTGCTCAC TATCACAAGA ACTGAGATTG CTGGTTTACA
 48001 GCTCCGGCTA TAATAATCTC CTCGGTTAAA GGATCCATCC CAATGCATAA TTCCAGTAA
 48061 CAGTATGGGA TGCCACCTGG GCAATGGGAT TTAAAAGCT TTCCTTCTCC CTCAACGAAG
 48121 TTTGGGAATT ATTGCCTTAG ACATTTCAAA CAATATTAAT AAATTTAATA CACCTGATTT
 48181 GCTCCAAACC TTACATATC TAGCAAATTC AACAGGCATT ATTTTGTAA GCATGTATGC
 48241 AAATTTTGGC AATTCAAGAA AATCAACAG GATATCAGGG CCTCGACTGT AGGCAAAACAG
 48301 ATACAATAAC ATTGGAAACA TGTAGAAATAT TGATGATGGG CACATTGGGG CTGATAGTAC
 48361 TATTCCTTTT TTTCAATTTT TGGTAAGATA TAATTAGCAT ACCATATAAT TCATCATGT
 48421 AAAATGCAAA AATTGGCCCC GCTCAGTGGC TCACGCTTGT AATCCCAGCA CTTGGGCGG
 48481 CCGAGGAAGG CAGATCACCT GAGATCAGGG GTTCGAGACC AGCCTGGCCA ACATGGTGAA
 48541 ACCCGTCTT TACTAAAAAT ACAAATAA GCGGGCGTG ATAGCAGGCA ACTGTAATCC

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48601 CAGCTACATT AGAGGCTGAG GCAGGAGAAT CGCTTGAACC CGGGAGGCGT AGGTTGCAGT
48661 GAGCTAAGAT CGTGCCATCA CACTCCAGCA TGGGAGACAA GAGCAAGACT TCATCTCAAA
48721 AAAAAAAAT TAGCTGGGTG TGGTGGCATG CACCTGTAAT TCCAGCTACT CGGGAAGCTG
48781 AGACAGGAGA ATCGCTTGAA CCTGGGAGGC GGAGGTTGTG GTGAGCCGAG ATCATGCCAT
48841 TGCACTCCAG CCTGGGCAAC AAGAGCGAAA CTCCTCTCA AAAATAAAAT AAATAAAATA
48901 AAATGCAAAA ATTAATGGAT TTTAGTATAT TTACAGAGAT GTGCAACCAT TACCAAAATT
48961 TTACATTTCT ATCTCCCCAA AAAGAAACCA TGTTCCTTA ATTCAGTACC CTTAATTCAT
49021 CGCCTCCAG ATTCTCCAT TCTCTCCTC CTCCCTCCC AGCCCTAGAC AATCTTTAAT
49081 CTACTTTCTT TCTATTTGGA ACATTAGTA TACATAGAGG CATATAATAT ATTGCTTTGC
49141 CGTGACTGGC TTCTTTCATT TAGCATAATG TTTTATGTA TGTTTTTCAT GGACCAATAA
49201 TATCTATTAT AAGGACATAC CACAACATAT TTTATTTATT CATTCATCAG CCGATGGACA
49261 TTGGTTTGT TCTACTTTAT GGCTATTGGG AATAGTGCTG TTATAAACAT TTATGTACAA
49321 GTTTTTTGT AGACTTATGT TTTGATTTCT TTTGGTTATA TATCTAGAAG TGGGTTTGCT
49381 GGGTCATATG GTAACACTGT TTAACCTTTT GAGGAATTGC CACATTCTTT TCCAAAGTAA
49441 GCATTTTATC CTCCTATCAG CAGTGTATGA GAGTCTGAT TTCTCTCCAT CTTTGCTTGG
49501 GTTTTTGAAT CAGGGCCCCA GATAGAACAA AAATGTGGTT ATTCAGTTGT TCCACCATCA
49561 CTTGTTGAGA AGACTCTTTT TTCATTGAAG TGTTTTGGCA CCCTTATCAA AAATCAATCT
49621 ACCATAAATG TGAGAGTTTA TTTCTGGAGT CTCAATTTTA TCCCATTATG CTATAATCTA
49681 TAATCCTATC TTTTTTTTTT TTTGACAGAG CCTCACTCTA TTGCCCAGGT TGGAGTGCAG
49741 TGGCCCAATC CCGGCCACTG GCTCCTCCTC CCAGGTTCAA GCAATTCTCC TGCCTCAGCC
49801 TCCCAAGCAG CTGGGATTAC AGGTACCTGC CACCATGCCT GGTTAATTTT TGTATTTTAA
49861 GTAGAGACGG GGTTCACCA TGTGGTCAG GCTGGTCTGG AACTCCTGAC CTCAGGTGAT
49921 CTGCCACCT CAGCCTCCCA AAGTGCTGGG ATTACAGGCA TGAGCCACCA CACCCAGACT
49981 ATAATCCTAT CTTTATGTCA GGACTACACT GTCTTGATTA CTATAGCTTT TTAGTAAATT
50041 GAATTCAGA AGTTTCTCAA CTTCAAATTT GATCTTTTTT TGGAAGACTA TATTAGCTAT
50101 TCTCAGTCTG CTGAATTTCC CTAGGAATTT TAGGATCTAT TATCAATGTC TATTCTATTT
50161 TTGTATATGT TTTAATATTT TCATAAGAAA CTTTTTTCAT TTAAACTTTT TTTTTAAGA
50221 AAAATAGTGA AAATCAGAAC ACTGGGGGTC AGGCGCATTT AACAGGCAGA AGAAGAATAA
50281 AAACCTGTCA TATAAACAAA AAAGAAATGA CCAATCACAT TGTGGAAGCC ATGGAGTGGT
50341 TATAGGTGCC AAAGGCTGCA GAGAAATGGT GTCAGATATA CCTGAAAATT GTCCATTGTA
50401 TTTGGCCATT AAGAGACTTA GAAGACTTAA GCCATAGATT GCTCAGTGAG ACCCCGAGGG
50461 CAAATGGTCT GAAGGTGAAT AGATCATTTC ACCTTTAAGA GAGCAGGTAG GAAGCTATAA
50521 ATCCAAGATT AAAAAAGTTGA CTGAAGCTGT AAGGAAGAAA CTCTAATCTT GAGCCACCCT
50581 ATCCTGGCTC CACCTTCTGC TGCAAGCAAA CAGAAATGCT GAAATTCAAC ACTCACAAAG
50641 GCTGGTAAGC TGGAATGAC AAAAATTACT CCTGGGAAAG TCAGATTTAG AATTAGGCCA
50701 TATTTGTTGG GGTTCAGATT TTCATGTACA CTTGGGAAAG GGTTTAGCTT ATAGGCACAT
50761 GCATGAAGGG AACTGGTATA GGGCTGTGTT CATAAGGTCA AGAGTTGAAG GCCAGGCATG
50821 GAGGCTCTTG CCTGTAATCC CAGCACTTTG GGAGGCCGAG GCAGGAGGAT GGCTTGAGCC
50881 CAGGAATTCA AGACCAGCCT GGGAAACATA GGGAGATGCT GTCTTCACAA AACAATTAAA
50941 AAATAAAATT AGTCAGGTGT GGTGGCACAC ACTTGTGGTC CCAGCCACTC AGGAGGTTGG
51001 GAAGATCACT TAAGCCTGGG ACATTGAGGC TGTAGTCAGC CATGATAGTG CTAATGCACA
51061 CCAGTCTAGG TGACAGAATG AGACCCTGTC TCCAAAAAAA GAGCTGTATC CACATCCCAG
51121 GAAAGTGGTT GAAGATCTAC TTTTCTCTGT AAACCTAATA AAGAATAGAG TGACAAATGT
51181 GTGTTGTGGA AAGAAATGGG GTGAGAGCTA CGTAGATGCA AAACAATACA TCCCCACATA
51241 CCACTTGTTA ATCATCCTTT TCCACCCACT TATGGGATGA ATTGCATCTC CCAAAAGAT
51301 ACTCTGTCTT AACCCTCAGT AGCTGTGAAC CTGACCTTAT CTGGAATACG GTGAGTTCAC
51361 TGGTTAAGAA GAGATTATAG TGGAATAGGG TGAGTCCTCC AACCATGAC TGGGGTCTCT
51421 ACAGACACAG AGGGATGATG GCCAGGTAGA GATGGAGGCA GAGATTGGAG TTATGCTGCC
51481 ACAAACCAA CACAGGAAGC TGCTAGAAGT GGAAACAGGC AAGAAAGAAAT CCTTCCCCAG
51541 AGGCTACAGA GGGATCTGG CCCTGATAAT ACCTTGATCT CAACTGGCCT ACGTAACTGT
51601 GAGAGAATAA ATTTCTTTTG TTCTAAGCCA CCCAGTTGAT AGTACTTTGT TACGGCAGCC
51661 CTAAGGAACT TGATATACAT TTCTTTTACT GTCATAGAAG TTTTGAATCT TTTAAGTAGG
51721 TCTGTACCCT TCCTCCAGT GTCAACACAT GGAATTCCTC TCCTTGTGCC TTGAAAGTG
51781 AAAGGTGTTT GAACTGGTAA TGAAGAAAT CTCAGCATGA GGCCAGATGC TGTACCTCAC

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51841 ACCTGTAATC TCAGCACTTC GGGAGGATGA GGCGGGCAGA TCACTTGAGG TCAGGAGTTC
51901 TAGACTACTC TGGCCAACAT GGTGAAACCC CATCTCTACT AAAAAACAAA AATGTTATCC
51961 TAGCCGGGCA TGGTGCCGTG AGTCCCAGCT ACTCAGGAGG CTGAGGCAGG AGAATTGCTT
52021 GAACCCGGGA GGTGGAGGTT GCAGTGAAC T GAGATCACGC CACTGCACTC TAGCCTTGGT
52081 GAGAGAGCAA GACTTGGTCT TAAAAAAGAG AAAAGAAAAA TGAAATTTCA GCATTATAGA
52141 ATAAAAATGT TTCCCCTTCC CCCCAAACTT TAAAAAAGCA GAAGTCTGCA TCATAAAATG
52201 GTCTTTGCCA ATGTTATTTT TATTATAACA AAGGAATCTT GCAAGGCTAC CAGATCTCAG
52261 CAATTGTCAC TATGTTCTGT AAAAATCACT TCCTAAAATG TCTGAATTGA CTGCTTGTCT
52321 CATTTATTTG TTTCTCGTGT CATACTGCAA TGGATATCTG TCTTGTTAGT ATAAATATTT
52381 GTGCATTTTG TTGTTGTTAA AACAGCTTTT TTGGCCTGTC TTCTTCCACC TATGAGGTAA
52441 TATAAACTC ATGTTTAAACA CTTATTTTGT TAGCAGGACA AGCTACAGAC AAAACCCCTC
52501 AGACACTGAG TTAAAGAAGG AAGGGCTTTA TTCAGCTGGG AGCTTTGGCA AGACTCACAT
52561 CTCCAAAAAC CGAGCTCCCT GAGTGAGCAA TTCCTGTCCC TTTTAAGGGC TTGCAACTCT
52621 AAGGGGTCT GTGTGAGAGG GTCATGATCG ACTGAGCAAG TGGGGGTATG TGACTGGCAG
52681 CTGCATGCAC CAGTAATCAG AACAGAACAG GGATTTTTCAC AGTGTTTTTC CACACAATGT
52741 CTGGAATCTA TAGATAACAT AACCGGTTAG GTCGGGGGTC AATCTTTAAC CAGACCCAGG
52801 GTGCAACACC AGGCTGTCTG CCTGTGGATT TCATTTCTGC CTTTTAGCTT TTACTTTTTTC
52861 TTTCTTTGGA GGCAGAAATT GGGCATAAGA CAATATGAGG GGTGGTCGCC TCACTTATTC
52921 ACCCCCTTTG AGAATCTCAC TCATTAGTGG GAGTTCTCAC TTTTATTCTC ACTACCTATG
52981 TCTTCTTGAA AGACAGATTG ATAATGATTC ATATAGTACA CTTGTGCTGA AGCATTTTGG
53041 TGAGCTAAGG TAGTGATGAA GCTTTTATC ATTTGGAGAA GTACAGGTAG CAAACAAGGA
53101 AGCAGTAAGC AGGTTTCTAT TAATATTATA ACTCCTATTA TAAGAGTTT AAATCTTCTT
53161 AGCACTCGGA ACCATTTTTC AAACATGGCC CCAGAAACAA ATCCATACCA CACCTACATG
53221 GGCACATGTG CCACTTTGT CATATTCTA ACTATGTCTT CAACTACTTG CCCTTAATCA
53281 TCTATGTGTA GACAGCAATT AGTAAGGTTA AATTTCTTAC AGACCCCTCC TTCAGTTGCT
53341 AGCAAGTAGT CGAGAGCCAA TCCATTTTGA TAGATAGCAT TTTGCATCTG AGTTTCTTGC
53401 CAGGCCACAG TAGTCAGGGC TCTGCTGGTC TTATTAGTAA TTATTTCTAA GACAGCTTGT
53461 AACCCTATGA TTCAGTTGAG CATGTAAATG GGGGTCCCAT ATCCCACAA GCCGTCTTGT
53521 GCCCAAGTAG CAGGCCATA ATATTGTATG ATTCTCTCAG GGGGCCATTC ATTATTTTTT
53581 CAATTTTCTA TAGCTATGCT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTGCGG
53641 GAAGCATATA CAGGGAAGCC CAGGAGTTTG CCTGTCTTTA TGGGCAGTAG GAAGAAAGAT
53701 GGTTTAGTAG TGTCAATAAC ACAACTACCT GCCCACTGGT CAGGTAATT GGCATAAGCT
53761 GTATGCCAC ATATCCAGTA TAATCCAGTG GGGGCTGTCC AGTCCCGGTG GAGCTCTGGG
53821 TGGGTCCACA CAGTTTGCAA CTTTGGGAAT TTAATAAATA GATTTTCTT AGTGTGGTTT
53881 GAACTCCACT AGGTGGCTGT TTTTATAGTA CTATTATACA GTTTTGGCCC AAGGCAGCTG
53941 AGTCTTCCCA CAGGAAGGGT GAAGTCTTTC CCCACTTTTG CTATACAGTA TTGTCTAATG
54001 ATTGAGGCTT TTAGGACCCA GAAGTTATCA GGGTGAGTCT TTTGAGCTGG GAATTTATCA
54061 GGAACGGGT CTGTAGGTAC TAATCTCGT GCTTCCCATG GCCATTGATC TCCCATTACA
54121 GTTCTCCAC ATACATACAT AACATGAAGT GACATTGAGA GACTGGGCTA CATGCTCAGC
54181 TAATTGCAAA AACAAATTTT TTGTTTTTCC TGGAAATTTCT AGTACTGGCA CATTCAGTTC
54241 ATCATAAGAA GGTTTGAAAT ACTGGCTCAG GGGAGCATTT ATAACTTCT CCTCAAACCA
54301 CCATATTTAC TCAAGGATCC AGTCCAGCCC CAACTATTTT TAAGGTTACA CGATCCCCTT
54361 TTTTCCAGTG AGAATCAAGG GGGTTGGTTA TTAAGTTTCT TAAGGGGTTA CACTGACCAC
54421 TGGTACAGGA AGGGCCACTT TTCCCTTTCT GAAGGTGGAC AGGATTCTTT TTATTTTTTA
54481 ACCAAGTTGC CTAAATGACA CAAGACCAGT ATCTACATTT ATTTCCACGC AGTCTTAATT
54541 CATGACAAGC GTACTTATTT TCTGCCATAT AGCCTCTTTC CTAATGAACA GAACCACATC
54601 CTATTTCTAA CTTATTAATA TTAATGACAG CACAGGCATC AAATTTCAAG GTGACTTGTT
54661 TGGGCATTCC TTTTCTTCT GTTTTGGCTA AACTTTTACT CGTATCGTTT ATGAACCCCT
54721 ACCAGTCTC AGTCTCAAT CTTATTTCAA AACTGTGGT CGTGGGAGGC TCAGATGGGT
54781 CATAACACAC ATCAGTTGG TCACTTCTTG GGTACCTAC CTTGTATAGA ATAGCATTAT
54841 ACAAACAAGT TATTTTGA TAATTTGTAC ACTTATAATA ACCATAAAAT AATAAGACTG
54901 TAGCAACTTT TTGTCTACC TCAGTGACTT GATGTATACA CTGGGAACAG CCCTCAGTCT
54961 GAGGAAGGTT AGTTGAAGTC TTTACTGTGC AAGTCCAAAT TTTAAGGAAA ATGAGTCCCT
55021 TGATGAGTTT TCTCATGTTT CGGCCATGCA TGGACCAGTC AGCTTCCGGG TGTGACTGGA

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55081 GCAGGGCCTTG TTGTCTTCTT CAGTCACTTT GCAGGCGTTG GCGAAGCTGC CACGTACAGC
55141 TCACAGTCTA CTGATGTTCA AGGATGGTCT TGGAAAGTTGG GCCCACTAGA ATTAAGTGGAG
55201 TCCAATACCT CTAAGTCACT ACTTTCAACT GGGCTTTCTG ATACCAGGAG CAAGGTGGCA
55261 GGTTTTAGGG TGTGCAAAAT TTCAATGGTT ATGCAGGGAT TTTACATAG CAAACTTTGG
55321 TACTTGGTTA ATCTAGCATT TGTAGCCAA TGATGTATTT ATTAAGTCA CCACAGCATG
55381 GAGGGCCTTT AAGTTTAGGT TTTGTCCAAG AGTTAGCTTA TCTGCCTCTT GTGCTAGCAG
55441 GGCTGTTGCT GCCAAGGCTC TTAAGCATGG AGGCCAACCC TTAGAACTC CATCTAGTTG
55501 TTTGGAGGCC CAGCCTCGGC CAGGGCCCCA CAGTCTGGGT CAAAACCTCA ACCGCCATTT
55561 TTTCTCTTTC TGACACATAG AGTGTAAGG GTTTTGTGAG GTCAGGTAGC CCCAGGGCTG
55621 GGGCCGACAT GAGTTTTTCT TTTAACTCAT GAAAACTCA TTGCTGTTGG TTGTAATAGA
55681 TGTAAGTTTAT CCAATCTACA TTTTATTAA CTGTCAACCA CCAAAATATT GACTCAAATC
55741 CTGCAGCTAT TTGATTTTGG GATTTAAAT GATCTGCTAT TCCCTGTGGG ACTCCAATTG
55801 CATCTAAATA GATGTGAGAG TTGAAAGACA CATAAGGGTC TTCTCTTGCT TTACGATGTC
55861 TTATTTTCTC TCCCTCTGGT TGATGAAATG CTAGGGTGAA AGGGATAGCC AATTGGACTA
55921 AAGTACAAGT GCCGCTCCAG TTATTTGGCA GAGTGCCAG TAAAGGTCCA CCACAATACC
55981 ACCACACATC CGCTTGGGGA TGAACAAAGG CTGACTGATT GAGAAGCTCC TGAAAATTCT
56041 TAAGCTCACT GCATCCCTTC AGGTCTCCAA GGAATGCTAA GTTTCCTCCC TGTCAATAGA
56101 GACAAGAAGT GAACTTAGTT TTGGGAGATG GAAGCTGGAT GGCCCTCAGG GGTGACCTG
56161 CAGGGTGTCT GACTTTGGGA TATAGCAGAG AGAGCTTGGC ACGACTTATT ACTCCAGGCT
56221 GTAGAATCCT GGAAACAGT TACCATGCAG CCCATGCCTG GTCAACAGGA GGACCACCTT
56281 AGTGGAAGG GGATAATCTG GCCCTCTGGC CTGCCATGTG CACAAGCATA ACAATTGGTT
56341 TTGTTTAAATG TGTGGACAGA ATATTGATC CATTCCAACT GGGCATTGTC ATCTTGGTAT
56401 CCTGCTTAAT TATCAAAGTT TGTTTAAGT CTTTAACTTC TATGACCCTC TAGTAAATG
56461 AATGATGAT TTTAGGAAAT TACAAAAACC GGTGGGGCA GTCCATCCTT GCTCTTTAGT
56521 GGTCCACACA ACATTGACG ACCATTGGCA TAAAAGCTCT ACATCGGGGG GCAAGACTCC
56581 TCGTTGACAC TGGGGTCTTT ATTGAAATCT CTCTGGAATA AATGGTCTCA GTTTACTAAG
56641 GCTCAGTCTG AGGAGAGTCA GGAGGGACAG AGGTACTTTT CTGAAGTACA GAGATGTCTT
56701 CGACTTGGCA AGTCCCCACA GGGTATAACA AGGCAAGCAT TAAATTCAT AGTTTGAGGC
56761 AAAATTGACT TGGTTATGTT AATAACTAGA TGGTCAGAAA TAGAGTGAGG GAAGAAGAAA
56821 GAGTAATAGA ATAGATGAAG GAGTTAAAT TTTCTTAGCT TTAGTTTGGT AGGGTTTTCC
56881 CCTGGGACTA TGGCCCATGA CTCTGGAGGG GGTGGCACTT TCTTGACTCG GGTGTGATGA
56941 GTCCATCCCT TTTTCACCGT ATGAACAACA GTCTCGGTGG TTAGCAGCAC AAGGTAGGGT
57001 CCTTCCTAGG CTGGCTCAAG TTTTCCTTCT TTCCACCCTT TGATGAGAAC ATGATCTTCA
57061 GGCTGGTGCT GGTTTACAGA AAATCTAGG GGTGGTACAT GTGCTAAAAG ACTTTTAGTT
57121 TTGAGGGAAA GGAAAGTGGA AGATAAACCA AGTATATAAC TTTTAAGAAG TTGACCTTTT
57181 GTTTTAAATG TGGGGACATC AGCAGTGGAC TTTATAGTCC TTGGTGCCTT CTTACTGAGA
57241 AATTTCCCTT AGCACCTATT TTTATTAGTT TTTAGACCAA AGAAAGTCAA ATGCCATTTT
57301 ATATTTGACA ACGCTTCTTG TATGTTTATA CCAGATAAGC TAGATTTTAC CTTTATATTG
57361 GTGTGTTATT AATGTTAAAC TTAGTTTAA TAAACTCTG TAGACATATT TATTTGATTT
57421 TTAATGTCTG ACCATAAGGT AAGATTTTAA TAGACTTTTC TTTAACCTTT TATAATTTT
57481 GTTAAAGAAC AGGTTAGTGC TTTAAGAAAA ACCCGTTGTG TTTTATTTT AATGTTTCTG
57541 TCACAGAAAA ACTGTATGAT ACCCTTAACT TTTAGCCAA ATGTTTAGAC ACAGAATTTT
57601 CTTTACAATT AAGTTTCAA AACTTGCTTA AACCTTCAA ACAATTTTGT TAACCTTTTA
57661 ATGTAGGTAA AAATCCACAT TCTTATGCAT CCTCATAATC CTTTACCCTA AGGTATATTT
57721 TACTTTCCTT ACATACCTTG CACATAAACT GTTTATTCAA TAGTTTACA TTTAGAAGGA
57781 GGCCTAATTA CTTTAAATTT ATACAACATT TCTTACATAA ATTTATTTT CTAACACACA
57841 TTTTTTTCAT GACTTTCACA GACAATCTT CGACATGCCT CAACTTTCTG ACTTATTGCA
57901 AACATCCCTT TCTTTAAACA ACTAGTTAAT TTATCTCAGG ACAAGGATT TCCATACAAC
57961 ATTCTTTTTT ATATAAATTC TGCCTCCTCT TTATTTCTCT TTTTTTTTTT CCGAGGATGA
58021 TAACCATCTT TTTCCAAAGC GAATTTCTTT TATGTCTGTG GACTAGACTG TCTAAGGCCA
58081 CAAGATTAGA AGTTACTATA ATACATGTTA CACTGTTAAT TTTTAGCAAA CTTTACTTTT
58141 GTTGAAACC TTGTAAGTTT GGGATTTCAT TTATCCTTTG CTATTAAATA GACCTTATTT
58201 AGTCCAAAT AACTTAGAAT TGGTATAGAT GGCTTTTTTT TTTTTTTAAT TACCTGGGAG
58261 GAACCATCTA TCCTCCTGTC CTGAAGGGAG TTCCTCCTAG GTCTGGTCAG AGCTTTGTAT

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58321 GGTAATTAAG ATTTAGATCC CCTGTTAGGA AACCTGCCGG GTTAAGAGAA TTTTCAGTGG
58381 TTAATGTAA ATCATCTTCT TTTTCTTTT TTCCTTAGGA TACTTCTGAA CCGGTGAGGT
58441 GTGCTCACAA TGAGGTTTCC TGAAAAAGTT ATTTTTTTTAC TTCTTCTGT TAGCAAAGCA
58501 GTTGCCGCTA CAGATTGAAT GCATTGGGC CATCCGCGGG TTAGTGGGT AAGGATTTTT
58561 GATAGGAAGG CCTTAATGCT TTTGGAATAT GCCCTGACAA CAAAGTGCCA GTTCCTTCCC
58621 GGTGTTGAGC CACTGCGTTG ATCCTCCACG AGGGCCTGCC ACGTGCTGCT CTGGTGAGGC
58681 GTTCCACCGG GGCAATTGCC TACCTGGGAG CGCTCTCCAG ATCTGTGTG CTCAAACCTGG
58741 CTGGAGTTCC CCGTAGGGAT GCTCCACAGG GCAGGCCTAA GTCGCCTAAG GGGCTGCCTT
58801 GACCGTCCGT TAATCACCTC TGTCTCCAAA AACCAGCTCC CTGAGTGAGC AATTCCTGTC
58861 CCTTTTAAGG GCTTACAACCT CTAGGGGGT CTGCATGAGA GGGTCGTGAT TGATTGAGCA
58921 AGCAGCGGGT ACGTGACTGG GGCTGCATGC ATCAGTAATC AGAACAGAAC AGAACAGCAC
58981 AGGGATTTTC ACAATGCTTT TCCATACAAT GTCTGGAATC TATAGATAAC ATAACCTGTT
59041 AGGTCAAAGG TCGATCTTTA ACCAGACCCA GGGTGCGGTG CCGGGCTGTT TGCCTGTGGA
59101 TTTCATTTCT CCTTTTAAT TTTTACTTTT TCTTTCTTTG GAGGCAGAAA TTGGGCATAA
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59221 AGTAAATTGG CAAATATTAA TAAAGTTATG GCATAGAAA TAAAAATGAT TGTAAGAGGC
59281 GTAAAGATAT TTCTGTGGG AAAACATTG TTCATTAGTT ATCAGTTAAA ATTCTGTGAA
59341 AAATAACCAC TAGAGACCCT AAAGTACCCA GGGGCTAATA ATAAGAAGG AGGAACACCC
59401 TCFCACCTCC CACCGTTACC TGCCAGAAAG GGAAGAGGAA GAGGGTGACT CCAGGAGAGC
59461 TGTGGTCTCC CCTCCCCATA TGCCACATA TACCTGACCT CCCCTCCCCA AAATATATAC
59521 CCAATATCTC TCCCATATAT ACATATTTAT CTGACCTCTC CACATATGTA TACCTAAACT
59581 TTCTCTATAT ATCCACATAT ACCTAACCTC CTCACACACA TATAGCTGAC CTCCAGTGGG
59641 GGAAAATGGG GAAGAGAGAA GAAGTTATCA AAGGATAAAT CTAGGTCATA CTCGAAATG
59701 TGAAAAACAA AAACCACACA CAGAAAAAAA AAACACACAC AAAAAAGAAA TTGATAAATT
59761 TGTTTGTGTC AAAATTAAGA ATTCCGGTTC AATGAAGGAT CCCATGGATA AAGTTAAGAC
59821 ACTGCTGTAA GGATGGTAGA GAATTAATG TCTGAATCAG ACGAAAGGAT GAGTAATTAG
59881 AATGCACAAG GCCAAGAAGA ACAAACAGA AACTCCACAT AAAAAATGTA TGAGGCCGGG
59941 CGCGGTGGCT CATGCCAGTA ATCCAGCGC TTTGGGAGGC CAGGGCGGGC CGATCAGGAG
60001 TTTGAGACCA GGCTGGCCAA CATTGTGAAA CCCCATCTCT AAAAAAATA CAAAAATTA
60061 GCCGGGCGTG GTGGTGGGTG CCTATAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT
60121 CACTTAACT CAGGAGGCAG AGGTTGCAGT GAGCTGAGAT CACACCATTG CACTCCAGCC
60181 TGGGTGACAG TGTGAGACTC TGTCTCAAAA AAAAAAATA TTATATATAT ATATATATAT
60241 ATATATATAT ATATATATAT ATATGAAATA AATGAACAAG AAATTTAGAT ACAGGAAAT
60301 CCAAAGCACT TGGTAATGAA AGAAAGGTAA AGTGATGTGT CCTTTTGCAT TTAAGAGAGA
60361 GCATTAACAA ATTAGAGAGC TGAATAATGC TCAGTATTGG TGTGGATATG GAGACTCAGG
60421 AATCCTCATA CACTGCTGAT GGGAGTGCCC ACTCCCTGGG AATATTTTCC AAATATCATC
60481 TCAAACATAT CCCATAAAGG TGACAGGAAA GTGTGGGCTG ACTGATATCC TTCCTGAGA
60541 GAGGTGGAGG TAAAATGAAG TCACTGCACA ATATAGAGTT GGAAGCAATG GATTAGATGT
60601 CCACATAGTT ACGTGGAAGA ATCCGTAAGA TACACACACA CACACACACA CACACACACC
60661 TTTGTGTATA TTGTTCTTGG CAGGTAGGCA TGGAGGTTTA GAGGCTTTCT ACATCACACC
60721 TACTGCACAC AGTAAATGGC CAGGCTGAGC ACTGACTTCC ATGAAGGGAG ATTGAAGGTA
60781 AGAGATTGAA GATTGTTCCC TGGTCTGGGA CCCTGCAACT GAATATGCAG AAAAAAGTAC
60841 ACCCCGCCAC CCCGCTTCCC ATCTTCTCTA CCTGATTAGA ATAGCTTTTT CAGAAAACGT
60901 TGGCCAGGGG TTGTGGCTCA CACCTGTAAT CCCAGCACTT TGGGAGGCTG AGGCGGGCAG
60961 ATCATCTGAG GTCAGAAAGT CCAGACCAGC CTGGCCAACA TGGCGAAACC CCATCTCTAC
61021 TAAAAATATA AAAAATTAGC AGGGCATGGT GGCACACACC TGTATCCCA GCTACTCGGG
61081 AGCCTGAGGC AGGAGACTCA CTTGAAGCAC AGTGATGGAG GTTGAAGTTA GCTGAGATCT
61141 TGCCACTGCA CTCCAGCCTG GGCAACAGAG TGACACTTTG TCTCAACAAC AACAAACAAA
61201 CCCACCAAAA CTTTAAATCT ACCTATGGCC AAATGCCTGC TAAAATGAG ACCCAAGAAG
61261 CAGTGTTTCA GAAAGTCAGA TGAATACCCT AAAATTAGAT GCAATGTTGG CTGGTCAGAG
61321 TGGCTCAGGC CCTGTAATCC CAATCCTTCT TGGGAGGCCG AGGCGACAGA TCGCTTAAGC
61381 TCAGGAGATC GAGACCAGTC TGGACAACAT GGTGAGACCG TGTCTCTACA AAAACGTACA
61441 AAAATGAGCT GGGAGTGGTG GCGCGCACCT GTAGTCCCAG CTACTCAGGA AGCTGAGGTG
61501 GGAGGATCTC TTGAACCCAG AAGGCGGAGA CTGCAGTGAG CAGAGATCAT GCCACTACAC

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61561 CCCAGCCTGG ATGATAGAGC CAGACCCCCA TCTCCAGAAA AAAAAAATAA AGAGAGAGAG
61621 AGATGCAATA TTTAGGGTTC AACAAGACTG AATTTCTGAC TCCTTTCCCT ACCTCTCCAG
61681 CATGTTAGAT TCTGGGTCCT TCATCCTAAC CCCCTGTTCA TGCCATAGCC ACCCTGTGGT
61741 ACCAACTTTG GAAGCCTGGA TCTTCATCCC CTCATGATAA TGAGTGTCCC ATCAGGTCTC
61801 CATGCTCAGC TTGGCAAGAG TATCTGTCTT CTCCTCATGG GACGGTCACA TTCACCCAGC
61861 ACTGACAGGT TCCATTCCCA CTAGGGTGGC ACCCTATATG GTCTGAGTCC AGGCCTTCCT
61921 GGTCCCTCAG TAATCTCAGC ATGGTAGCAC AATCGAAAAG GGCTAGGCAC GGCAGCACCA
61981 TTTCCCAACA AGAGGTCTGA TGGCTCATCA CATAGACTGA AGGAGATTCT GAAGAGCAGA
62041 GGTGGAATGA AGAATGAATC GTGGGCTCTG CTCTTCCTAG GCCTGTCTTC CTCTCTCCCG
62101 AGATGTTAGC TAACTCATGA GAGCCAGAAA CCAACTGCAG GCTGGCCTCA GGCACCTAGG
62161 TAGTGCTTCA GCCTCAGCAG TCCACATTCT AGGAACCCTC ATAATATGGG TTGAAGTATG
62221 CATTCCCACA AAAATAAAGT TGTTGAAGTC CTAACCACCA GTAAGTAAAT GGGAAAAGTT
62281 CCCTTGTCCT GCTCGCATGG CATGTGATAG GAGTGTGGCT AATTTCTTCA GTGCCTGGCT
62341 GCTCAAACCT CTAGGGGAAC ATTAAGACGG GCAGGTTGTG GGTCTCCAAC CCCATGACCC
62401 CACCACAGTG TCTAGGGTTG AATGTTTACA GCTCCTGAAG CCACAGTGGG TGTGTGTTAC
62461 AGGGTGCTCT TTTAGTTTTG CCATTTATAG GCAGCTGGTG TTAACCACT CAATTAGACC
62521 GTCTACCTTG TCCCAAGGAC AGAAGAAGGC TTTCTGTATC CCAGGTTCTT GCCTTGGTGT
62581 ACCGGAATAA ATCAGACCAC ACCTGGGCTT AGAGAAAGAG TGCAAGGTTT TATTAAGTGG
62641 AGGTAGCTCT CAGCAGTTGG GCAAAGCCAA AAGTGGATGG AGTGGGAAAG TTTTCCCTTG
62701 GAGTCAGCCA CTCAGTGGCC CAGGCTCTCC TCCAACCACC CCAGTCAAAT TCCGCTCAT
62761 TTTGCCAGGC AAACGTTTGT TGTGTGCTCT TCTGCCAGTG TGCTCCCTG GACGTCCAGC
62821 TATTCGTGTC TTGTGGCAGG CCAGGGGAGG TCTTGGGAAA TGCAACATT GGGCAGGAAA
62881 ACAAAAATGC CTGTCTCAC CGTGGTCCCT GGGCACAGGC CTGGGGGTGG AGCCCTAGCC
62941 GGGGACACG CCCTTCCCTT CCCCACTTCC ATATCATTTA AAGGGACCAT GCCCTTCCCT
63001 TCCCAGCACT TTCCCTCTCC TGTATCAGGA CCTGTGAATG TGGCCTTAT TGGAAATAGG
63061 GTCTTTGCAC TTCATCAGTT AAGATAAGAG TGGGCTCTAA CCCAACAATA AGGGTGTCTT
63121 TATAAAAAGG AGAAATGTCA TACACAGAGA CTGACACCTA TAGAGAGAAA ATGTGGTGAG
63181 TAGACACAGG GAGAATCACC ATTCAAGTCA AGCAATGAGT CTGGGGATAC CAGAAGCTGG
63241 GAGAGAAACC TGGAACAGAT TATCCCTCAT TGCCTTCAGA AGGAATCAA CCTGATGATA
63301 CTTTGATTTT AGACTTCCAG CTTCCAGGAC TGTGTGACGA TAAATATCTG TTGTTAAGCC
63361 AACGAGTTTG AGGTACTTTG TTACTGCAGC CCCAGAAAAC TAATACAGTA GGTACTATGG
63421 ACTGAATTGA CTCCCGTTCG CAAAATTCAT ATGTTGAAAC CCTAACCCCT AGTGTGATGG
63481 TACTTGGAGC TGGGGCGTTT GGGAAAGTCAT TATATTTAGA CAACTCATC AGGATGTGTC
63541 TCTCATGATG AAATTCATGC CCTTATTAAA AGAGACAACA GGCCAGGTGC AGTGGCTCAT
63601 GCCTGTAATC CCAGCACTTT GGGAGGCTGA GGTGGATGGA TCACCTGAGG TTGGGAGTTT
63661 GAGACCAGCC TGGCCAACAT GGTAAAACCC CATGTCTACT AAAAATACAA AAATTGGCCA
63721 GGTGTGGTGG TGCACGCTTG TACTCCAGC TACCTGGGAG GCTGAGGCAG GAGAATCCCT
63781 TGAAACCAGG AGGTGGAAGT TGCAGTGAGA TCACACCACT GTACTCTAGC CTGGGTGATA
63841 GAGACTCCAT CTCAAAAAAA AAAAAAATAA AGACAATAGA GCCAGGTGCT GCAGCTGATG
63901 CCTGTAATTC CAACACTATG AGAGGCTGAA GCAGGAGGCT CGCTTTAGCC CAGGAGTTCA
63961 AGACCAGCTT GGACAAAATA GTGAGACCCC CAACTTCTAA AAATTTAAAA AATGAACTGG
64021 GTGTGGTGGT ACACATCTGA GGCTCCAGCT ACTCTGGAGG CTGAGGTGGG AGGATTGCTT
64081 GAGCCAGGA GGAGGCTGCA GTGAGCCATT GCTGTCCAGC CTGGGCTACA CGAGAACCCTG
64141 TCTCGGGAAA AGGAGAAAAC AGTGAGACCT CTTTTCTCT CTTCTTCTC TCCACTGCCT
64201 AAGCCCTACA AGCACAATAA GGACACCACA TGAGCACATA GTGAGAATGC TGCTGCCACC
64261 AACAAAGTCAG GAAGAGAGCG TTCACCTAGA AACTGAATTG GCCAGCACCT GGATCTTGGG
64321 CTTCTGAGCT TCCAGAACTG TGAGAAAGTT ATTTTTTTTT TAGCGACTAA GTCTATAGTA
64381 TTTTATTACA GCAGCTCAAG GTAACATAA TAGTAGAAGG GATGAATTAT GGAGATCACA
64441 AGTCCACGCC TCCAGAAAAA GACTTCCCTA AAAATTAGTC TGAGCAAAAT TCGAATGATG
64501 AATTATTTTT AAGAACTTTT AAGGGATCTG ACAAGTTTGC AAGAGCTAGA GAATGCTTTA
64561 CAACGTGATA ATAGAATGCT CTGTGATGAC AGAAATCTTT CCACACTGTT CAAACTAGC
64621 TACTGGCCAC TTGTGACTAT TGTGCACCTG AAATGTGACT GGTGTCTGAG GAGCAGAATG
64681 TTTAATTTTA CTTAATTTTA ATTCATTACA ATAGCTACAT GTAGCTAGGG GCTACTGGAT
64741 TGAACAGCAC AGCTCGAGTC TTTTAGAGGG AGACAGGACT CACCAAGATG GATGCTGGTG

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64801  GCCAAGCAGC AATGGCAGGT AGTACACACA CAAGAGGCAG ATGATACAAC ACATCCTTCC
64861  CAAACCTGGA GATAAGCTCA CCCACAATC CCGCCGCTGA AATAGAGTTG ATGTTACCAA
64921  TGTGCATTTT TATGTCCTTT TCCATACAGA AAGATCATTC AGCAAGTACT ATGGTACTTA
64981  AAAAACAACA TTCAATTCAT TATTATGACA AAATTAAATT AATAGCTCTT CCTTAACTT
65041  TTAAATTCAG TTTACAATGC TTACTATTGG CATTATTAA TCTACCAATT TTTTCCCAT
65101  GAACCCATAG AACAAATAAT CTACCAAATT TTTAACATTC ATTTTGGCA AGGCTTTTGC
65161  AATTTGACGA ACTTTAAGAA GAAAACCTAT AAATTGCAAT TTTTAAATCT GACATACTGG
65221  ACTTTTAAAG TATCCAATTG ACTAATGAAC AAAACTGCTC CAAATTTTTC AATTCTTAAA
65281  AATCTTAAGA CAATACTTAA TATGGCAAAT CTTAACTTCT TAAACTTTGT AAGAATGCTA
65341  ATCAACTTAG ATTGGTATAA AGTTGAGTTA AAAATCACAG GATACATCAT CTCAGCTATA
65401  AGTTTTCATG AGTTGAGTTT TTACAATCAC TTGAAATGCT TAGAATAGGA AATACGTATA
65461  AATTATTTAA CATAAAATAT TGTTACAAA CCTCTGGAGT GTCAGTTTCT CTGGCCAGAC
65521  TTTATGCTGC AGCACCTTTG CCTGAGTTCT TGTCTGTCAT CCAGGAAGAA TTAGGTACAG
65581  AGGCAAGAGT CAAGAAGATT AGTTTCCAA TAGTTCAGT CACCTAGTTA ACTCCTGTTC
65641  ACAATCTTCA AAGTTATCAG AAACCTGCAA TTGAGGGTTA TAATCCATT TTTGCAGAGT
65701  TTCAAAACAA GACAAACATTT GTCTATGAAT GTTAAAATGT CCTAGGGTAG TCACAGTCAA
65761  AAACACAATT GACAAAGAAA TTTAGTCACC TCTGTGATTT ACAATAGCCT AACACAATAA
65821  CTCTAATTAT AACTGATGAC ACAAACCTCAG ATATCAGAAC TCTAGAAATC CCCTATAATT
65881  TTGGAACACA CATTACAGT TTTCACTGAA ATATGACCTG AAGATCAAAT ATCACCTTAT
65941  TTCAACAATC CTATATAACT AAACGTGTCA AATGATCCTG TTTACCTCTC CTTTGGATAC
66001  TCCAGGGGCC CTCTGTAGCA TCCAAAAGTT AGGGGTTAGC AAAGACAATT TTGAAGCTGT
66061  AAAGGCTCAA AACACTTAAT GAACCTCTAG TCATATCTGT TCTCTACTCA CTAAATGCTA
66121  GTAGCACCTC TCAGTTGTGG CTAAGCTGGG AGGATCTCTT GAGCCTAGAA GTTTGGGGAC
66181  GCAGTGAGCT ATGATTATGC CACTGCATC CAGCCTGGGC AACAATGCAA AATCCTGTCT
66241  CAAAAACAAA AACAAAAAAC AAATTGCCTA TGCTGTGGTT ATCTCACAAT TAATAAAAAG
66301  GAAAAAATAA GTATGCAGTC TTTGTAGGTC CTTGGGGTTT GTTGGAACTC AGAAAAACAAT
66361  ACCCCAAAAT AAAGACCGCA GAAGCCAAAG TTTTCTCTG ATCTTCTCCT GCCCTCCTGT
66421  CTCTGAGTCC CATTCTCCCC GGAGTCTAGC CATAGAAATG AGAATTCCTC TTCCTCAAGT
66481  TAGGTCATAG AAATCAAAAC ACCTTTTCCC CAGAGCCCAG CCATAAAACC TAAAAATATT
66541  ACTCTAECTT TCCCTCTGTT TTTCTGTGTA AAAACTGGCC ATAAAGAAAT TATCTGAECT
66601  ACCTTATTTG ATCATAGATC ACCAGACCGC ATTCCAGAGA GGATCCAGAA GGAAGGAATG
66661  CTGCACAGAG AGGCGAAGAA GAATCTAGAC AGACAGGCCT TGCTGGGTTT CCCTACTCTG
66721  TTTATTAGCA ATCCTATTTC TACACGGCGG CCCATACTTT GTTGAATCTA AAAAAATAAA
66781  ATGGACAATT TCCCCTGTAC ATGTTAATAC ACATTAATAA ATTGGATATA AATTGGATAA
66841  TTTATTAATA TACACATTAA TAAATTGGAT GCAGCCGGGT GCAATGGCTC ACGCCTGTAA
66901  TCCCAGCACT TTGGGAGCTG AGGCGGGCAG ACCACGAGGT CAAGACCACC CTAGCCGAAA
66961  TGGTGAAACC CCGTCTCTAT TAAAAATACA AAAGTTAGCT GGGCGTGGTG GCACATGCCT
67021  GTAGTCCCAG CTACTGGGGA GGCTGAGGCA GGAGAATTGC TTGAACTCGG GAGGCGGAGG
67081  TTGCAGTGAG CCGAGATTGC GCCACTGCAC TCCAGCCTGG TGACAGAGTG AGACTCCGTC
67141  TAAAAATAAT AATAATAATA ATAATAATAA TAATAATAAT AATAAATTGG ATGCATTTTA
67201  TCCTATTAAAT CTCCTCTTGG TCGGTGGTTT TCAGCGACTC TTCAGAGGCC AAAGAGTAAG
67261  TTTTCCCTTA GCCCCTACAG GTTCTTATGT TTAATTTGTT ACTCTCATTT AAGACATAAT
67321  TAAAGTGGCT TCTCCATGAA GATTATTTCT GCATCCATTA TTTGGTAAGA TTGGCCGTTT
67381  TCTCCTTTGA TCTCTACTTC AACTGACCC ACATAAAACA TCACTGCCTG TTTTTTGT
67441  GTTGTGTTT GGAGACGGAG TCTTGCTCTG TTGCCAGGC TGGAGTGCAG TGGTGTGATC
67501  TCCGCTCACT GCAAGCTCCG CCTCCCGGAT TCACGCCATT CTCCTGCCTC AGCCTCCTGA
67561  GCAGCTGGGA CTACAGGCAC CCACCACCAA GCCCGGCTAA TTTTGTATT TTTAGTAGAT
67621  ACGGGGTTTC ACTTTGTAA CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCGGCCCGC
67681  CTCAGCCTCC CAAAGTGCTG GGATTACAGG AGTGAGCCAC TGCGCCCGGC CCCGTTTTTT
67741  TTTTGGTTT TTGCATGTCT TCTCCCTTTT ACTGTAACT ATTTCCACTA CCAGCGTAGT
67801  TATCATTTCT ACTGCTTAAT AATTGTTTTT GGGAAAGTAA TGCATCAACC CACATGAATT
67861  TCTTGTCTAT TTGACAATTT ATTCTCTTTA GGAATAGTAT TAACTCCTAA GGTCTGGGA
67921  GCCAGTCTCT GTACTTGGCT GCTCCAGGGT CCTACTTCAG TTTCCAGCT TCTCAGTACT
67981  GTCAGTGTCA ATGTGGGTA ATAATTATTT TTGTCCACCA AAAGACTCTG TATGTGAATG

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68041 AGTTTTGAAA TCTGCTGAGT AATACAGTGT CAACCCAGTT AATGATTTGC CGGGCGGCTT
68101 GATCAGGGGC TGTCCAAC TA CCGGCATTTT GATTTGGAGC GTCATCTAGT GTCTGAAAGC
68161 ACAAACAACA TCCTACATTG TAAATGCCTT TGGCTACAGA GATTGAAACC AAAGCAAACC
68221 TATGTTTTGA ATTGTTATTC TTCAGCAGTT CTGCTAGCTT TGAAAAATCT AAAAGTTAAA
68281 AAAAAGCTTT ATATTTTCATT TTCTGCCTAA ACTCTTTAAA ATTGCTAGTT GACAATTAGA
68341 TATTTTCAAT TTAATGAAAT TTTTTTTTAG TTCACAGATT AATACACAAT GGGGGAGGGT
68401 TCTTATCTG TTGGACTTTT ACATAACCTC CACTTTAGTG CAGTCTGCTT TATGGGGTCT
68461 TGTTTGAGGT GTGTGTGTGT TTAAGGGAAT GTGGTTTACA ATCAAAATAT TGGGTTGCTC
68521 TTAGGCACAT TGTAAAGTCA CACACCTGTA TTCTTATTGA TACATAATGA TTAATAACAT
68581 TATTATTACA GCCTGATCAC CATCATTATT GATATATCTA AATAATGAAT TTTATAATTT
68641 TGCTTCCTGT CAGGCAAGAG CCAATTTTCTG TGTACCATG TTTGTATAGC AGTATTTATG
68701 TCTGTCTATC TCAGTCATTT TACTTCACTT GTTCTTAGCC AAACGGCCGA GAAGCGATGG
68761 TCATTTTACT TCAAAAATGA AAAGAATTAA TATTTTACG TTTCCCTTAA AGACCCTATG
68821 TTTAACCTCC ACTCCTGGGT AAAATGGTCT AGTCCCTCCT TTTTCATATCA TCTCTGATAT
68881 CTTTTGCACA GCCACTATTA CCTACCGTTT TCTAGATCCC TATTCTTCAA ACACCACCAT
68941 GAAGGTAGAG CCTGTCTGAA TTATTTTCTT GTCCCTGAA CTCAGTACAT TGTTAGGCTT
69001 CTTGAAGATG TTGATCAGTT GTTTGTGGAG TGAATGAATC AGCTAGCATG ATTTTCTAG
69061 ACCACTGAGA CAAGTGTCTA AGACACTTGT TCCTTCCCAT GTTCTTGCCT GCCTGTGCAA
69121 TCCATGCAGT CTCATGGCTT CCCAGTGCCT CAGAAATATC CCCTGTCAA CAGGCATTAT
69181 AATTTCTGTC CACTGAAAAG GACAAAAAAC TAAGTGTATA GCTAGAAGTT AAAAATTACC
69241 GGCCAGGTAC TGTGGCTCAC TCCTGTATT CCAACATTTT GGGAGGCTGA GCGGGGCGA
69301 TCACCTGAGG TCAGGAATTC GATACCAGGC TGGCTAACAT GCGACCCCCG TCTCTATCAA
69361 AAATGTAAAA GTTAGCCAGG TGTGTGGCTG CGCACCTGTG GCGCCAGCTA CTCAGGAGGC
69421 TGAGGCAGGA GGATCGTTG AGCCCTGGAG GTTGAGGCTG CAGAAAAATA GGAATATACT
69481 CTCTTTCAAG AGTTCGTGGT TTTGACTGCC ACCTAGCGTA CATCAGAAAA ACCCGATGAC
69541 ATAGGAAATG CCTGTGACAG AGGGGTAAGG TGAGAGAGGT TGATGAAGAA TGTATTGAAG
69601 GAGTGAAAC GCTTCCATCC CTCTACTTAC TAAATATATT AGTTAAGTAG TTGGGGCATA
69661 TTTTAATTC A TGCAATTTGT AGATAGAAAA ACAAAAGTTT TATTCTGTTT GATTTAGTTG
69721 ATACTTTAAT ATGTGTGTGT TTAGGATGCA TGATTTATAA TCAGTCTGCA GCACTTCTTG
69781 GAGAAGTCTG AATTCCTATT CTCCATTTC TTATTGGCAA CGTGAGAATG ATTACAATGG
69841 TGGTTGTCTC ATAGAATGCA GGGAGTCAGA ATGAAAATAG TCCATATAAT GCCTGGTGCA
69901 GAGGAAGGGT TCAGTTAACT GTCTGTATTA ATATTACTGA TAACAGTCAT GACAAACAAA
69961 AGCTTAACAA CAACACCACC AACAACAGTT GCAGAATTGA GCCACCAAT TGCACACAAG
70021 ATTGTAGGTA GGATGTTTTA GAAAAGTTAT TATTTAATAT ATGTATATAT TTTTGTACTT
70081 AAAATATGTC AGAGGTTGTT CTAAGAACTA TTTAAATGTT AACTCCTTAA TCCTCATAAT
70141 GACCCATGAA ACAGGTAGGC TTATTATTGT CTCTTTACAT GTGAGAACAC TGAGACACGA
70201 AAAGGTTTAT TAACTCACCC AAAGTCACAC AGCTGGTAAA ACGGCAAAAT TGAATTTGAA
70261 CTCAGACATT CCAGGTTCCA AGACAGTCTA ATTATCTTT TGAATAATAT ACTAAGCTGC
70321 CTCTGTATTT TTCCTTGATT ACTTTGTAAA AGTATGAGGA AAATATAAGT GCTTCAAGTA
70381 ACCATGAAAA ATATAACAA TCTATGTATC AACTGAAGCA TAATTACAAA TCCTTTGATA
70441 AGCAACATA ATAAAAATTT GATATCAATC AAAACTTTCA TGTAATGTAA GCAGGTTGAG
70501 ATGAATTCTA TAGTAAAAAA GTGCAGAGTG CTGGAATACC ATGCTCCTAA TATATTGGCT
70561 AGGCACACCT GCCTGCTATC AAAGGTATGC ACACACCTTG GATACAGAAA GTTGGGACTG
70621 GGTAGTTATG TGAGTGTCTA CAGAATCTT TCCCCTTGG GAAAGAATTG TCCATCATAA
70681 GCTTGGATGA TGGACAAGGA GTGAGCTCCC AGAACAGTGA TGTGGGGATA CATCCTCACA
70741 TCACAGTGAG AATGAGTGTT CTAGACTGTT TACACACCTA CCACTCCTAA ATGCACACAT
70801 ATAATTGCTT GCACACACAC ACATACACAC TCATCTCTTC TCTGGTGGTC CAGCTCTATC
70861 TCTTATCATT AGGCTTCTTG GGGCTAGTAC CTAGGGCCTG TATCCTTTCA GAGGCAGCTA
70921 AGGGAAGCAC ACATAATTAG AAAGAATGAA CCAGCTTGTT GGATTTGGTC TCTTCGCATC
70981 CAGCCCTCCA AGTTAAGGAG AGTACCATCT TTCTTAGGGT CACCAAGGA AAAAAAATA
71041 AAAGAAAGAA ACAGAAGGAT ATCATACAGC AAGGATCTAA TGCAAAATAG CCTCAAATGA
71101 GAGGCTACTG TGTGCTGATC CCAATCCCAG GAACTGTATG CACATTATCT AATTTAATCC
71161 TCACTGTATT TCTGGGAGTA TTATTTCCAT TTTACAGAGA AGGAACTTGG CAGGGTAACC
71221 AAGCTCATGA ATGAGAAAAC TGGGATTAAA TATAAAGCTT CCTTGCTCCA GAACTGCTGT

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71281 CTTTCTGCTC TTCCACACTA CCAGCTCAGC TGTGCTCTCT ACATGCAGGC AGTTTTACAA
71341 GTTTCAGATT AGCCTGGGAC TTCCAGGGTT TTGAATGGGT TAGGGAATGG GGAACCTTTG
71401 GGTTTACTTT CCATTTTTTC TTCATACATA TGTAATATAT AACATAAATC TATGGTATAT
71461 ATGATAAATA TATGGCTACA TATGAACAT ATAATCACAT ATATGCATTA TAAATAAATA
71521 TTAATTTTAT AATATTTTAA AGGTTATCAA ATAAATATTA ATATAAATAA TTAATAAATT
71581 AATACTCAGC TTTGTTTTCC AAAGTGATAA ATGCCTATAT TTAGCAAAAT ATTTTTGGGA
71641 GGCCTGATAG TTTTtaggag TGTAAGAAG TCCTGATATC TAAATGTTTA AGAACCCTA
71701 TTTTAGGCTG TTGTCTTCTG TCTTATTTTC CCAGCTAGAC TGGTAAATAC TTGAAGGCAA
71761 ACGTTTAGCC AGCACATTAA CATTTTATGT TTTTATTCTT TTGTGCTCTC AGTGGCTGTG
71821 TCTTTTCTAT CGATTTCTCA CACTGTATGA TGGTTATATT TGTCTGTATC TGTCCCACCA
71881 GGTATAAGTT CTTGAGAGGA CACACTGCTA GGCTGATCTT AGTTTTTATT ATTTCTCCTG
71941 GTGTCCTGTG CTTAACAAGT GCTCATTAAG TGTGTAAAAA CACAGCACAG TAAAAAATA
72001 GACATTAAAA AATAATGTCA ACCAATCTAT TGAATTTGTC ATTTCCATGT TTCTTCCAAT
72061 ATAGTCATTG TGTCAAGTTA TGTACTTATT CTGATGAAGA CTATTGCCTA ATATACGTTT
72121 GCATCTGTG CTTTATAACT GCCTTCATAT AGACACAGAT TGAGAAGGTG TAAAAATGTG
72181 CATATCCTCA CAATTGACAA ATTCTTATCC TTTGAGGGTA GGTGACTT TCTGAAATGC
72241 TTTGACATCA TTTGAAAGAA GCTTGAAGAA TAAGATAGCT GTTAATGACC CAGTTTCCTA
72301 TGTCACTTAT ACAATTATAA TGGCAATTC AAAATGTTAG GTAAATATAT TTTGCAATAT
72361 ATTGTTCTT TTGTAATACT CTCTATGTAT TTATTTATAT TTTTAAATTT TATATTTATG
72421 TATTTATTTT TCTGGACAGA GTCTTGCTCT GTTGCCAGG TTAGAGTGAA GTGTTGTGAT
72481 CATAGCTCTC TGCAACTTCA AACTGCTTGG CAAAAGTGAT CCTCCTGCCT CAGCCTCATG
72541 AGTAGAGTAG CGGGAACCTAC AGGCGCATGC CACTGCACCC AGCTAATCAC TATTTATTAT
72601 GCTCCTACTG TGTGCTTTAG TATATTTTCT GTTGTGTTCT GCAACCCATT TTGAGGGCGT
72661 GTTAGGGAAT ACAGATGCAG TAACTTTCGT CTCAGCCCTT GAGGTGAGGA AATATTTAGC
72721 CTCAGGTTTA ATCTAATTGT TGGCCATTG CCTTCAAAGA TTGAAATATG AGCAAACTG
72781 TGGCTCTGGG TTATATGTTA AAAAAAGTT TATGGGGCTG AAGCCAGGCA ACAGACAAGA
72841 GCCCCTACAA TCTTATTTAG GCTGAAAATA TCCTGGAGTC CCTGTATTGT TGGTCTCAAG
72901 CAGATAGCAA CACTAACACT TACTCTTGA GGCAGGCACT GCCAGTGGGG TGGCTGTTAT
72961 TATTAGCTTC ATTAATTGGT GAGTCAGGAA AAAACAGCTT TAAATCATTC AAAGTTCTGG
73021 CCTATACAGG ATTTAGTAAT ATTAGGTTAG CTACATCCAA AAGATGACAG AACCTACTC
73081 TAAGGCTGGG CTGGTGGTT CACACCTATA ATCTCAAAAC TTTGGGAGGC TGAGGCAGGA
73141 GGATCACTTG GTGCCAAGAG TTTGAGACCA GCCTGAGCAA CATAGTGAGA CCCCTGCTC
73201 TATCAAAAAC AAAGAACTCT AATTGGCATA GTAGAAGGAA AAAGTGAAAG AAAAAACGAGC
73261 TGTCACCCTC ATTCCTTACA CCTGTCTTAA CAACTCCTCT CACTATCCTT TGAATATATC
73321 TTGGCTGTTT GAGTCTCTCT CTAGCCCAT TACTGCTGTT TGGACTTGAC ATTTTGCTCT
73381 GCATTTTTAA CTTTTCTACC AGGGTTTCCA GACCTGAAG AGTGTGGCAT GAAACAAAAC
73441 TAGTCAACCT ATAATATTTA TGATGTGTGT GTAAATAAAA GAATACACAA TATATTGCAT
73501 TACAATATTT TAAGTGCTC CTCAATTTGT TTGTGGCTTT CTGAGGACA TCAGTTTTGG
73561 GTGGGACGAC CACATCCTTA ATCTGAACTT TCCCTTGGAG GTCATTCTTT TTTTTTGAA
73621 ATAGAGTCTC GCTCTGTAC CCAGGCTGGA GTGCAGTGGC GCAATCTCAG CTCACGTCAA
73681 CGTCCGCTC CTGGGTCAA GTGATTCTCC TGCTCAGCC TTCCAAGTAG CTGGGATTAC
73741 AGATGCACGC CACCATGCCG AGCTAATTTT TGTATTTTAA GAAGAGACGG AATTTACCA
73801 TGTGCTCAG GCTGGTCTTA AACTCCTGAC CTCATGATCT GCCCACCTCA GCCTCTTAAA
73861 GTGCTGGGAT TACAGGCGTG AGCCACCCCG CCCGGCCAGA GGTCATTCTA ATAGACTTTT
73921 TTTTGTGTTG TGCTCACAGG CTGTGTTCAAT CTTATTTCAA AATTTGAGAA ATACAGTTTC
73981 CATGGAACAC CAACCAGATA TCAGGTGCT ATGGAGTTGA TAGTCAAAAG CTTTGTATCT
74041 TCCAGTTTTT CAGAAATGGCT TCTAAAGGTT CTGATTGAGA GCTCTTAGGC GAAATTGAAC
74101 AACCAAGTGT CAAAGTACAA CATTCAGGAA GTTAAAAACA TGACTGACAT ATATGTACTA
74161 TATATAGTGA GCTTGTGTAT GTGTCAATGA ATGATTTAAT TCATTAATGA AGGAGGAAGC
74221 AGAATCACAA TTAGGTCAA GGAAGATACG GGAGAATAAA ATATGTATTT GGTCAAGGAA
74281 AGGATGTATA CTGGAAGAGG AAGGGAAAAT CAGATATAAA GTTGTTTAAT GACTTATTAG
74341 GCAATACAAT AATAACTTTT AGGGTCATTT TTTCTATATT AAGAATTCAT TTCCATCTCT
74401 ATGACAAAAT CCTTATTAAT TTATTAACT TCTACAAGTG AATGTTTACT TTTAGATAGT
74461 CTGGACCCAA TAAATGTAA ACATTAAGTC AGAGTTACTT TCACGTAGGA CAGTGTGTC

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74521 CAATAAGGTA CCACTAGCTA CACGTGATCA TTGACCATT TGGACTATAGC TAGACTGATT
74581 TAAAATGTTC TAAAAGTGTA AAATACACAC CAGGTTCTGA AGATTATATCA TTTAAAAAAG
74641 AATGTCAACT GTCTTTTTTT TTAGCTTATT TATTATATGT TGAAGTGATA ATAGTTTATGA
74701 TATATTAAGT TAAATAAAAT ATCTTAAAT TAATTTTACT TGTTTCTTTT CATTCTTTCA
74761 ATGTGACCAC TAGAAATCTG GAAAGTATTT ATGTGATTCA CATTCTATT TACTGTCTAG
74821 TATTGCCTTA CATCATCAGG TACCCCATAA GTAGGCTTTT TAGATAATT TCTAATATAG
74881 CTTGGAAGGA TATGGAGAAA TATTTTTCG TTGCTTTTAA GTTTTGCATA ACTTTTTTCAA
74941 CACACTTTAT AAAGGATCTA GAAAAGGGT GGTACATGT TTCTCTGTCT TCTGGCCTCC
75001 ACCATGTTGC CAGGAGGTTG GGGACAAGAT TCTGGGTGGC TGGATGTCCT AATGGCTTGA
75061 GGTCTGGACT TGAGATTTGC ATATAAAGAG ATGTGATTAG ATTGAGTCGA CTAGAAAAAT
75121 CATATTAGAG AACTGAATCA CAGCGATTAA ATTTACATGT CGATTATATA ACCAGGACAC
75181 CAATTTATAG TGAAAGAAGG TCCAGTTACC TGGTAATCAA GACGTTTCAT AGCTATTTTC
75241 ATGATGGATA TACTTAGCTG AGTTTAAAT GAGAAGGGGG TTCATTGCAC ATAGAATAAG
75301 ATCTAAGTGA AATGTTTATT TTATTTTTTT TTTTGTGACA TGGAGTCTTG CTCTGTTGCC
75361 CAGGCTGGAG TGCAATGAGG CAATCTCGGC TTCTGGAGTG CAATGAGGCA ATCTCGGCTT
75421 CTGGAGTGCA ACGAGGCAAT CTCGGCTCAC TGCAACCTCC ACCTCCCGGG TTCAAATGAT
75481 TCTCTGCCT CAGTTTCCTG AGTAGCTGGG ATTAGAGTTG CCTGCCACCA CGCCAGGCTA
75541 ATTTTTGTAT TTTTTTAGT AGAGATGGGG TTTCACCATG CTGGCCAGGC TGGTCTCGAA
75601 CTCCTGACCT CAGGCGATCT GCCCGCCTCA GCCTCCCAA GTGCTAGGAT TACAGGCGTG
75661 AGCCACCAAG CCTGGCCTAA GTGACATGTT CTTATATTGT TCCTTTCTTT CTTTTTTTTT
75721 CGACTGAGT TCACCCTGTT GCACAGGCTG GAGTGCAGTG GCGTCATTTC GGCTCATTGC
75781 AACCTCTGCT TCCCGGGTTC AAGCGATTCC CTGCTCAG CCTCCTGAGT GCCACCAACC
75841 CCAGCTAATT TTTGTACTTT TAGTAGAGAT GGTGTTTCAC CATGTCGGCT AGGCTGATCT
75901 CAAACTCCTG GCCTCAGGTG ATCCGCCCCC GAGTCTCCCA AAGTGCTAGG ATTACAGGCG
75961 TGGGCCACGG GGCCAGCCT TATATTATT CTTTTACTAC AATATATTAG TATGATGCAG
76021 GTGCTTCAAT TGTTTATACA CTTTCCATAA TTTTGTATAA TTCTTATACC CTGTCACTCT
76081 GAGGAATAGC CGGTCTAAGT GTTTTTCCAC CACTGCTAAT TCATCCATCA CTAATCTCAT
76141 TAGACTGTTA ATCCCAGAG GACATAAGCA CACAAGCAGA CAATGTTTAC AAATGTTGGA
76201 CAAATGTTAT TTAATAAAAC AATGGGGTCA CCCTTAGTCT AAAAGATGTT TCACTTTTCA
76261 TTTGTCAATG AACTCTTATT TGTAGGTTCC CTTTTGACTT TCCCAATC TAAGGCTGTT
76321 CTCTTTAACA CATATTTTCA TGAAACATA TATTGAGCA GAAATTGTTG GGGAGTTGTA
76381 ATATTACCTT TGTCCCTAAA TATGAATCTA TAATTATATC AAATATATGG GCAGACAATT
76441 TACTTTGCCT TTAATCTCAA GAAAAAATA GCAATTACTT GGGGTCGGAG AGTAAATAA
76501 GAAGTAGTGA ACCTTAAAGT AGCAAACCTT AGAACAGAAT AGTTTCAGAG GGGATGAGAA
76561 GAGGTGATTT TTCAGCTCAT CAACAACAGA TCTTATAATA AATTACATGT TCTGGTACTT
76621 TTCTTGTCTT TCTGTGTAA ATTTTGCTAT TTAATAAAT AAATTTCAA TACATTGTTT
76681 ATCTTAAAG TCAAGAGTGT GTTTTATTAA AGTCAGTTGC TTTATTGCA ACTCAAAGA
76741 TATATTGAG TTCCCACTG GAGATTGTCC TATATGTTAA CTTGCGTAAG GTATGGTTAC
76801 TGAAAGTAAC CTACAATTT CATGGGCTGA AATTCATTTC TATATTGCAG CGTACAAAA
76861 TAAATAAATA AAAATGCTT GTTTTCTTTG AAAACATATT ATCTCAGTGC CTCTAACTGC
76921 CAAATCTATT GGCTTTTTC CAGGCTTAAG GGCTCTCCCT TGTTCTTTA TGATCTCTAT
76981 CTTGAGGGCC AGACCTCCTG CTTACACAA CTCAGAGGGG GACCTCAGAG CTCTTTAAAA
77041 AGAGCCCAAT TTCTCGCCTG TAGAGAAGTG AAAAGGATGC CCCACCCCA TCTATGAAAA
77101 GAGGGATTG ATAGTTTCAA TGTCTTCAA TCAAAGATTT AAGTCTGTAG CCCCCACCA
77161 CCCCCGACCC TAGCAAGGCT CATGAACCCC CTCCCATCCC GCCCTAATTG CTTTGGACTG
77221 GCCGTGGAAT CCTGTGCCA GTCCACAGT CCTGTGCGAC TGCACGAAGA ATTCACAGAG
77281 GACCTGTGTT ACTTCCCTTG TGAAGAAAC GAATTATCAT GAAAATTTAG GTGGAAACCA
77341 TTTGCTTTT TTCTTCAAAA ATAAGGGAAG CATGTGCCCA ACCACCCCTG GGAAAAAGAA
77401 CCTTCAGGGG CAAAGGAGCG AACAGGTAAT TTATAAGAAA AACAGAAAGT GGTCTCTGAC
77461 TGCCCCAGAC TTCCTTCGGA GTTGGGGGAA TTGGGGACGC CTGGACGCGT TGTTTTTGTG
77521 TTTGTGAAA AAATAAATGA AGAGCATGAA GCCCGAGGCT TCTGAGATCC TTTCTTGACC
77581 AAACCAAGT GATTGGTGC GGGGAATTT AATATTTTTC CCCTTTGTG AGGTGGAACA
77641 AACACAACCT GGGAGCAGCG CAGCGCTCA GAGCCTGCCA GCCAGGCGGG CGACCAGAGC
77701 ACCAATCAGA GCGCGCCTGC GCTCTATATA TACAGCGGCC CTGCCAGGC GCTGCTTCAT

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77761 CGGCGCTTTG CCACTTGTAC CCGAGTTTTT GATTCTCAAC ATGTCCGAGA CTGCTCCTGC
77821 CGCTCCCGCT GCCGCGCCTC CTGCGGAGAA GGCCCTGTGA AAGAAGAAGG CGGCCAAAAA
77881 GGCTGGGGGT ACGCCTCGTA AGGCGTCTGG TCCCCCGGTG TCAGAGCTCA TCACCAAGGC
77941 TGTGGCCGCC TCTAAAGAGC GTAGCGGAGT TTCTCTGGCT GCTCTGAAAA AAGCGTTGGC
78001 TGCCGCGCGC TATGATGTGG AGAAAAACAA CAGCCGTATC AAACCTGGTC TCAAGAGCCT
78061 GGTGAGCAAG GGCACCTCTG TGCAACGAA AGGCACCGGT GCTTCTGGCT CCTTTAAACT
78121 CAACAAGAAG GCAGCCTCCG GGAAGCCAA GCCCAAGGTT AAAAAGGCGG GCGGAACCAA
78181 ACCTAAGAAG CCAGTTGGGG CAGCCAAGAA GCCCAAGAAG GCGGCTGGCG GCGCAACTCC
78241 GAAGAAGAGC GCTAAGAAAA CACCGAAGAA AGCGAAGAAG CCGGCCGCGG CCACTGTAAC
78301 CAAGAAAGTG GCTAAGAGCC CAAAGAAGGC CAAGGTTGCG AAGCCCAAGA AAGCTGCCAA
78361 AAGTGCTGCT AAGGCTGTGA AGCCCAAGGC CGCTAAGCCC AAGGTTGTCA AGCCTAAGAA
78421 GGCGGCGCCC AAGAAGAAAT AGGCGAACGC CTACTTCTAA AACCCAAAAG GCTCTTTTCA
78481 GAGCCACCAC TGATCTCAAT AAAAGAGCTG GATAATTTCT TTAATATCTG CCTTTTCTTG
78541 TTCTGCCCTG TTACTTAAGG TTAGTCGTAT GGGAGTTACT GAGGTATCAG ACGAATTGGG
78601 TGACGGGGTT GGAGAGTGGC CGTGGTGAGG TTACAGCATT TAAACCTTTA TTGCGGCTTC
78661 TAGGTCCCTG ACCGGAGGCT TTTCTCGCTG GCGGATGGTT TTGGGATGGC AGTCCCGCCC
78721 CAGGCCTGTG AACGGCAGAA AAGACCGCAA AACAAGAGCC AGTTTCTTAG TCTAAAGGGA
78781 TGTCCGATT GGAATAAAAA ATTTTCAAAA GTCCCGCCCT GCTCCCGGGT TGGTCCGTTT
78841 TTCTAGTACA TGACTTTCAT TCTGTATTTA ATTGGATGGT GGAAGACGTT GCTTATTCTG
78901 TGTTTTTTGC TTTACTGTGA CTTAAAAGTT TTGCCTCTTT TCTCTTTATA TTAATGTCTG
78961 GGATTTCCGA CGCTTTCCAT GTTGTGGTA GTCAAGTTGA TGTCTCCTGG AGGTAGTGGC
79021 AACATCCAGC CCTGGGAGGA GAGTGCCTGC AGGTACCTTT GTCCTACATT CCTCTGCTGT
79081 TAATTTCTCA TTCCTGTGGC AACGAAGGAA TGCATTTAAA AAACAGCCAC AACACGGCA
79141 ATAGCCCTTC CTCCACCCAA GGCAATCGTG GACCTAGGGA GTTTTTGTG CCACATAACA
79201 TGTAGCCTTC CGCTAAACTG ACAGGTTTGA GCGTATCGAT TTTGAGCGTA TCGAAAGCAC
79261 AACTTTTAGC CAGCCATTTT GTCCTCGCAT GACTACGGTT GCTTATCCTG TTTAGACAGA
79321 CAGCAACATT TAAAAATCGA AGTTCCTTTA AACGTATTTT GTTTGGCAGT CCAAATGTTT
79381 CTATGCAGAA AACAGTATTT GTACTATTAA CTATGAAGAG TGTATGGATA AATGGGAGAC
79441 ATTTCTAATA AAGGCCTTCG TTAATGGTTC CCTCTGTTG ACATCCATGG TGCTTCTGAA
79501 TACAGAAAGC CTAGCGTCTT ATATTCGCTT CTTTTAAAAAT CTGGTGGGCA CATTTTGGTG
79561 AGACCTAAAT TATGGGACT GGGGCTTCTG GAGATAAGCT GCTCAATTAT TCTACCATCT
79621 CCACAATGAT TAATATAGTG AGTTGATTTG TTAGTGATAG TGACCACGGA TTCATCCCAA
79681 GAAAGAGAAA GGGGAGGGAG GCAAGCAGAG AGACAGGAAG ACAGAGGCAG GGAAGAAGGA
79741 GAAAACATTC TCCCATGGTT TAAGTAATTT TGTGTTGTTA ATTTTACATT ACAACACGGT
79801 TTAACATGGT GAACCTCTA TTTTGGTGTA AGGTTTAAAC TATGGACATA TTTTCCCAA
79861 GACCATTTAT GAACTTTCAT TTCTGCTTCC CCCTTCTTCC TCCCGTGCCA CCCTCCACGC
79921 TCCTATCAAT TTTGGCTGTT TTGTATAGG CTAATACGCT ATAATTTCAT GGACAGTTGG
79981 ACTGTCTTAG GTTCTCAGG TTTCTATTTT GTTCCCTTAG TCATTTCCAC AATTCTTAAG
80041 GTAGAATTGT ATTGTTTTAA ACATTGTGTT GTGTGCTATC CTCATGCTG AGATGATTAT
80101 GTGACAAATG GCAAGTGTTT AACTAATACC TAAATCTGTA GTATCTTATC AAGCCTAATG
80161 CTACTTCACA ATGCCTACTC CATTACCTC ACTTTATCTC ATTACTGGCA TTCTGTCATC
80221 TCACATCATC ACAAGTAAAA CGGTAAGCTA TTTTGAGAGA GATCAGATC ATATAATTTA
80281 TATTTATATT TATTTATTTA TTTATGAGAC GGAGTTTCCC TCTGTACCCC AGGCTGGAGT
80341 GCTGTGGCAC GTTCTCGGCT CACTGCAACC TCCGCCTCAC GGGTTCAAGC GATTCTCCTG
80401 CCTCCGCCTC CCGAGTAGCT GAGATTACAG GGGCCTGCCA CCATGCCCGG CTAATTTTGT
80461 TATTTTATAGT AGAGACGGGG TTCTACTAAG TTGGCCAGGC TGGTCTCGAA CTCCTGACCT
80521 CAGGTTATCC GCCCACCTCA TCCTGCCAAA GTGCTTAGAT TACAGGCGTG AACCACCGTT
80581 CACAGACTCA AATCATTTTT ATTACAGTAT ATTGTTATAA TTGTTGTTTT ATTATCAGTT
80641 ATTGCTAATC TCTTACAGT CCTGATTTAT AAATTAATTT CATCATGACC ATGTGTATAT
80701 AGAAAAAAAC AGTGATATATA CGGTTAGTA CTATCTGTGG TTTGAGGCAT CCACTGGGGG
80761 TGCAGTTTAT TAAACATGCA TTTACATTAG TCTCCCTTTT GGGAGACTAA TTAACGTAGA
80821 TGTGTAAACG TGACTTTAAT AGCAGATAGA GCTAATTTTC TCTCATTACT CTTCTTTTTC
80881 AGAATTTTCC TGGTTATTCC ATTTTATTAT TTTCCATATG TATATTAAGA TCTCTCCAC
80941 CTCTCCTGT TTCTCCATCT CAACATCAAA CAATTAAGAA AAAAAAAG GCTGGGCGCG

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81001 GTGGCTCACG CCTATAATCC CAGCTCTTTG GGAGGCCTAG GCGGGTGGAT CACGAGGTCA
81061 GGAGTTCAAG ACCAGCCTCG CCAAGATGGT GAAATCCCGT CTCTACTAAA AGTATAAAAA
81121 TTAGCCAACC ATGGTGGCAG GCGCCTGTAA TCCCGGCTAC TCGGGAGGCT GAGGCAGAGA
81181 ATTGCTTGAA CCTGGGAGGC GGAGGTTGCA GTGAGGCGAG ACCTTGCACT CCAGCCTGGG
81241 TGACACAGCG AGACTCCGTC ATAAAAAAA AAAGCCGGAA GCAGTGGCTC ACGCCTGTAA
81301 TTCCAGCACT TTGGGAGGCT GAGTCAGGCA GATTACCTGA GGTCAAGAGT TCAGGACCAG
81361 CCTGGCCATG AAAATACAGC CTGGCCATGA AAACACACAA TAAATTAGCT GGGCGTGGTG
81421 TCACACACCT GTAATCCTAG CTACTCGGGA GGCTGAGACA GGAGAATCAC TTGAACCCAG
81481 GAGGCAGAGG TTGCAGTGAG TTAAGATGAC GCCACTGCAC TCCATCTGGG CGACAGAGCC
81541 AGACTCTCTC TCAAAAAACT AAATAAATAA AAATAAAGTT ATGGTACATT GAACTTCTGT
81601 GTTCCTTTCT CCCTTAGATA CTTTCATGGC TACCCATTTA ATTGATGTTT TTATCATCTC
81661 CAAGAGTTAG TCAGGAGAGG AATCAACCCA AGCAAAAATA GCTGATTTTC TAATTTTCCT
81721 TCAATGCCCT TTGGGGTCTT AATCCATTGT ATTTATGTAC TTTCAATTAA TCCTAACCTC
81781 GAATGTCTTC TGCAACATG TTTCCACAGA TGAAACTCGT CAAATGAAAC ACATTCCTTT
81841 AATTATAGA GTTAAAAATT AGAAAAATTT TCAATTCTAT TTGGCCTTTA GATTCAGTCT
81901 TGCATATGTT TTCTCAATTT TGTTCATGCT CTTTAGTTTT GTTTTATTTT ATCACAATTG
81961 TTCACATAGC TTAGTGCTT AGGTCTAATG AACCATTCTT TTGGAATAA AAATTGGCCA
82021 TTTTAAGATG AAAAAGATTC TTGCCTCAAT TTTACTTAGT TTTTGAAACT GTCAATGAGG
82081 ACACATGTTT TTCTGTACTC TTAGATTCAC TAAGTAGTGT CTTGCAAATT TAAGTGACAA
82141 AGGACAGATT AACATGCGAA AAAAAGAGCA TGCAATTTTA TTAGTATATT ACATGCACAG
82201 AGTTCCCAA GAAAAAATAA TTGAACCTT AAAAACGCGG TTAGACTCAC AGACTTATAC
82261 ACCATTCCAA CAAGGAAAG GGAGTTTGCA CTTTCATGGG TGACGAATTT GGGAAATGTA
82321 CAAGGAAATA AATACATGGG CAATAAAAC CATGGAAGAT AAAATGAAAG ATAGAAATAA
82381 TTGTAGTAAG GTTTGTTTTT GCAGAGTCAT CTCAGTGCCA ACCTTCCATA TCTAGTGATA
82441 AGAATTGCTC TCTTTTCTT GGTATAGCAG TTGGGGACAC TTTTACAAGG GAAATTTCTG
82501 TCACCTTCAC AAAGGGAAAT TTGGGTAAAG AGAAGACAGA GACCTCTTCC TACACCTGTT
82561 GATTTTCAAT TGCCTTCAGC TGAAAATAAC TTTTATGCCA AAGTAGAATA ATTTGGGGGT
82621 GACATCCTGA TATCTTCAA AACTTATATT TAATTTTACA TTAGTAATTA TATCATTTTT
82681 GATTTTTTAA TTAGTTTTAT AAAATAATTT TGAAAAACGG TAATAATATT CAAATAATTC
82741 CAGAAACACT GCTGATAAGC CAAAAACATC AATGAATATT GCATAAACAA CTGATAATTC
82801 AACCATGAAA ATTTATGACA TTGTTCTTGT GTGATAAAC TATGAGTAAC ATAAAACTA
82861 GAGGCTACTT GTAATGCATT ATTCCAACTT TTCTGTTTTT TATTTATTTA TTTATTTATT
82921 TTGAGACATA GTCTCTCTCT GTCACCCAGG TTGGAGTGCA ATGGCGTGAT CTTGGTTCAC
82981 TGCAGCCTCC ACTTCCCCGG TTCAAGCAAT TCTCCTGCCT CAGCCTCCTG AGTATCTGGG
83041 ATTACAGGCA CCTGACACCA ACCCCGGCTA ATTTTTTTGT ATTTTATGTA GAGACGGGGT
83101 TTCGCCATGT TTGCCAGGCT AGTCTCGAAC TCCTGACCTC AGTGATCCAC CTACCTCGGC
83161 CTCCCAAAGT GCTAGGATTA CAGGCGTGAG CCACCATGCC CGGCGCATT A TCCAAACTT
83221 TCATACACAG TGCTATCATG GCTACAAATT GAAGTATCAT ATTATACACT CCTAGGCAAA
83281 GCTCTGGATA TTTTGGCTAT ATAAGCCTGA GGGAAATGTA GTAAGGACAT TGTGGTTGAA
83341 ATTCATACCA GAGATGAACA GGCCAGTGTC AAGACAGAAT TACATCACTA AAGGATATCA
83401 GAAGAGAATA GGGATTTAGG GTACAGTGCC AACAACAGTT TTGGGAACCT GCATTTTGTG
83461 AGCACTTATT TACAATATGC CAAGCACTGT TGCTGATTAC TCTATATTTA TTTTCAAACA
83521 CATTCTTGTC ACAGCACTTT GAAGTAAGTG CCATTGTCAT TCCCACTTCA GGGTGAAGGA
83581 CTAAAGCTTG GTGTCATTAA GGATGTAGCT AGTTAGCTGT GTGTGTGTGT GTGTGTGTGT
83641 GTGCATTTTT TTTTAAATTT AAAGTCAATA AATTTTTATT TGAAGAATTT CACATCAAGG
83701 TAAACTTTGT TCCTCTAAAG AGCTGGAGTC AAAATGTATC TTCAAAGAT TCATCTTCAA
83761 GTTAGCCCTT CTTAATAGAA CTGATGCTTA ATCCACAGTT GTCAGCCAC AGTTCCTTTA
83821 TTTTGACTTT TTTTTTTTTT TTTTTTTGAG ACGGAGTCTC TCACTGTCAC CCAGGCTGCT
83881 GGGCAGTGCC GTGATCTCG CTCGCTGCAA CCTCTGCCTC CCGGGTTCAA GTGATTCTCC
83941 TGCCTCAGCC TCCTTAGTAG CTGGGACCAC AGGCGCATGC CATCGTGCTC GGCTAATTTT
84001 TGTATTTTTA TTAGAGACAG GGTTCACCTA TGTGGCCAG GCTGATCTCA AACTCCTGAC
84061 CTCATGATCC GCCTGCCTTG GCCTCTCAA GTGCTGGGAT TACAGGTGTG AGCCTCTGCA
84121 CCCGGCCTTA TTTTGCCTTC TTTAATCTCC ATTTGAACAT ACACATACTG ATGAAAACTA
84181 CAACATTCTT CACCAAAAAT CTTTGGGATT TAATTTCTTC AACCACCTTA CTTTGGGGTC

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84241 ATTTTAAGAT TAGGTGTATC TGCCTGGTTC TCAATTTGAC ACCCTTTCTC TCTAAACATG
84301 AATGAGTTCC AATCATATTT ATTCCCTAAGC TATCACACTC AAATATACTA CAGATCTGTG
84361 GAATATGCCA AAAGTTAAGG TGAAAAATTA AATTATTAGG TATTTTCATAG TTTTGCTAGT
84421 TTTTGATCTG TGAGTGAATA TAACTATCCT CTATGTCCTG GCACTGTTCC TCAGAAACAT
84481 AGGGTCCACA TATGTAATTT TAAATTTTTT AATAGGCACA TTTTAAAAAG TGAAAAAAGA
84541 AATCTATTTT AATGATTTGA ATCCAGTGTA ACCAAAAATT GTTTCACAA GGTATCTAAT
84601 ATTTAAATAT TGAGTTTTTA CTTTGTATT TTTGAAATCT TTTGAAATCT GGTGTGTATT
84661 TTACACTTAA AGCACATCAC AGTTTGGAGT AGCCACATTT CCAATGCTTA ATACTCACAT
84721 ATGGTTAGTG GCAACTATCT TGGACAGGAC AGCTTTTATA CTCTGGGAAG ACACAAGCAA
84781 ATACTTGCTC TGCAGCAGAA TCCAGATGTT TTCCAAGAAA ACACTTTTTC TGACCTGTTC
84841 CTGAAACCCA GGTAGTGTCT CTAATACTTT ATATTTTATT GGTGTTGCTCCT ATTGTAACCA
84901 CCCAACGGGC TCTCCTTGTC CACTTCCTAG ACAGAGCTGA TTTATCAAGA CAGGGGAATT
84961 GCAATAAGGA GCCAGCGCTA CAGGAGACTA GAGTTTTATT ATTACTCAAA TCAGTCTCCT
85021 TGAGAAATTTG GGGACCAAAG TTTTAAAGGA TAATTTGATT GTAGGGGACC AGTGAGTCGG
85081 GAGTGCTGCT TGGTTGGGTG AGAGATGAAA TTATAGGGAG CCTAAGCTGT CCTCTGTGTC
85141 TAAATCAGTT CCTGGGAGTG GTGGGGTGGG GGACTCAAGA CCAGATAACT CAGTTTATCT
85201 ATATGGGTGG TGCCAGCTAA TCCATTGTGT TCAGGGTCTG CAAAATAGCT CAAGCATTTGA
85261 TCTTAGGTTT TAAATAGTG ATTTTATCCC CAGGAGCAAT TTGAGGTTTA GAATCTTGTA
85321 GCTTCCAGCT GCATGACTCC TAAACCATAA TTTATAATCT TGTGGCTAAT TTGTTAGTCC
85381 TGCAAAAGCA GTCTGGTCCC CAGGCAGGAA AGGGGTTTGT TTCTGAAAGG GCTGTTATTG
85441 TTTTGTGTTA AAAGCAAAAG TATAAACTAA GCTCCTCCA AAGTTAGTTA ATCCCAAACCT
85501 CAGGAATGAA AAGGACAGCT TGGAGTTTAG ACGTTAGATG GAGTCGGTTA GGTAAGATCT
85561 CTTTCACTGT AATAATTTTC TCAGTTATGA TTTTGCAAA GGCAGTTTCA CTGTCCACTT
85621 CACCTCACAT CAGGCCTCTG ACTAGAGAT TCCAACAATA CTTAGGCCAG GACACCACCA
85681 TGTCTCCTTA TCCACCCTGA GGGAGTCCAA TTTCTGAAAC AAAGGAAACT ATATATGATA
85741 GTATGAAACT ATATATGAGA AGGAAATTAT ATATGATAAT CAATTTTAGG GTTATCTTAT
85801 TGATTAGAAG ATATTAAAGT GTGACACTGC CTGGCAATGA TATCTGCTGG TAGTAAGAAT
85861 TTGGCGAATT TAGTGAAATT CCTGAGGCTG AACCTCCACT TCTGTAAAAT GGAGACAGTG
85921 AGATAATTTG CCTTACAATG CTGAAGTAAG AATTTTACAC AATAATTCAG ACCAACCCT
85981 TCATGTGGTA CTGCCCCGT GGAAGACTAT CAATGACAGT TAGTTTATAG TTTTACTAT
86041 TAATGAATCC TTTGTTTCAT TGTATTTCCT TTCTACACGT TGGCCTCTCT AAAAGAAGGT
86101 AATATTCAAT ACAATAAAG TTAACACAGC TTGCAGAGTT GTCCCGAGGA ACTCACTTAA
86161 CCACTGAAGT GTTCAAATTG CTTAAGGTTG ACTTTATATT CTCCTGACTA ACCTTTCTCC
86221 TTCTGGTATT TCTTCTGAGA ACAGCACCAC CATCCAAAGC ATCATGCAAA CAGTGGTCAT
86281 CCCAGACCAG TAATTCTCAA CTCACAGGGT GCTCCTGCAG AGATGTATTT GAATGAGTG
86341 GTAGGATGCT GAAGAAGGCC ACGTAAATTT TGGCCAGTGA TCTGGGGCAG ATTTATCCTG
86401 AAGCTAATGA AACACAAGTG TAAGGGCCTG TACTTCCAAG GTGCAGAGAG GGGCCCTACA
86461 AATGTGTTAG TTTGTCTCTC TCTCTCTCTC TGATTTTAAA ATTTGCAGTA TTAAGGTACT
86521 TTAATCACGG ATGGTTCAGG CTGCTATTTT CACTCAATCC TCCTTTTTAT TAAATCACC
86581 ATTGTCTGAT TATGTTAGAA TCCTGATGAA AATATTTGGA ATTTGAGTAA GAGAAAGTTT
86641 AGTTGAAGAT GTATCTAGTA TGGGGATAAT AAGTTACGTG ATTTGCATAT GTGATCATGT
86701 GTACTTCATT CGTTGCCAGC CAATCTGACG TAAGAATGGC TTCAAGGAGG CCGGGCGCGG
86761 TGGCTCACGC CTGTAATCCT AGCACTTTGG GAGGCCGAGA CCGGGCGGATC ACGAGGTCAG
86821 GAGATCGAGA CCATCTTGGC TAACACGGTG AAACCCCGTT TCTACTAAAA ATACAAAAAA
86881 TTAGCCGGGC GTGTTGGCGG GCGCCTGTAG TCCCAGCTAC TTGGGAGGCT GAGGCAGGAG
86941 AATGGCATGA ACCTGGGAGG CGGAGCTTGC AGTGAGCCGA GATTGCGCCA CTGCACTCCA
87001 ACCTGGGAGA CACAGCGAGA CTCCGTCTCA AAAAAAAAAA AAAAAGAATG GCTTCAAGGA
87061 ATGTTCCCTAC TGCTCACTGG AATAACTCAC CTAAATTCCT GGCAAGATGC AGGTCTAGAT
87121 AAAATGTTAT GACATCTAAG TATTCAAAC ACATTCCCAG CACTGAGAGT GAGTGTCTAG
87181 TGGAGAGTAG AAACGTATAG AGCCAGAAGC TAGTCTGGAA AGAATCTTA CAAAGTTTAC
87241 AACTTACATG TGAAAGGAGC TTAACAGAGG ATTTTCCAAA TTTGAAAACA ATCCTAAAAA
87301 CTTACTTGAC ATTACCAATA ATGTGTTTTG AAACGTGAAAT ACTTCTAAGT TATGAAGAAA
87361 ACATATTATC ATCAGCCACC CTGGAGGAAA GATTGAATTC TATTTCCATT ACCTATAGAC
87421 AACATTACAA AATAATTTTC ATCTGAAGAT GGAATCAGAG TATTCAGTCA AAACACAGG

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87481 AAAATATACT TGGTAGTGTC ATATTCAGAA GTTAATAAAA TATGCTATTT TCTGAATTTT
 87541 GTGATGGCTG TTGTTTTGTC AGCTTTTATA AAATTGGAAT TTGATTTTAT TTTCCCATTA
 87601 TAAATTTATA TTTACAGTCT GCAGTACTTT TGCATTTTAA ATTTTACATT ATAGTTTTTA
 87661 ATAGTTAACA AGTTGTAAAA GGTGTGATCC CCAGAAAACC TTGATCTACC CCATCAGTTA
 87721 AGTATACTAA TATATTTAGA AAATGGATGA AATCAGCATT TGAATATTTT TAAATATTTA
 87781 TTAAAAGAGG ACATGGGTAA AAGAGCTTTG CAGTTGCCAC CCTTCATTCT CAAATTCCCT
 87841 GGATAAGGAT GACCGCATAA TCTTTGGATG GTCATACGCA AGTCTTGTGT ACTTGTTACA
 87901 TAAATCTATT TAGTGGACTT TTGGCAGTGT GTACTGAGGC CAGTTTCTTC CACCTGAGCT
 87961 CTGACTCCAC CTCCAGCAGC CCAAAACCAA TACTGAATTT TGGGGTCAGC TATTGTTTTT
 88021 GTGGACTTAG GTAACCTACAC ACACATTGTC TTTATGATAG CTTTAATAAT ACTGCCATCA
 88081 GAACTAAAAT TGTCACGTGG ATTAAGGA GTGACGGTGG TGTCGCCAGG AGCCTTTCAA
 88141 TATGTAAGTA TTTACACATA TACATGCTAA AAAGACCCCT AGGAATTTTT TAACAAGGGC
 88201 AAAACAGTAA CTCAGCTTGT TTTCTCGCAG TAAAACCGGT TGAAAAGGCC TGATAGACTT
 88261 GTCTGCAGTT ACAAACCTTG TGTGTAGTTA TCACCTTTAT ATCTCCTGGA AACTAACATA
 88321 GACAACCGAA TGGGTTACAA CTGTTTTTAA GTGAAATTGT GAGTGGCTCT GAAAAGAGCC
 88381 TTTTCAATGA GGAAGAAACG GGCAGACTTA TGCCCTTTCC CCACGGATGC GACGTGCCAG
 88441 CTGGATATCT TTGGGCATGA TGGTGACGCG TTTAGCGTGA ATAGCGCACA GATTGGTGTC
 88501 TTCGAAGAGT CCCACCAGGT AGGCCTCACA AGCCTCCTGC AGCGCCATCA CCGCAGAGCT
 88561 CTGGAACGCG AGGTCGGTTT TGAAGTCCTG GCGGATTCT CGCACCAGGC GCTGGAACGG
 88621 CAGCTTCCGG ATCAGCAGCT CGGTGGACTT CTGGTAGCGA CGGATTTCCG GCAAGGCCAC
 88681 GGTGCCCCGG CGGTAGCGAT GAGGTTTCTT CACGCCACCG GTGGCCGGAG CGCTCTTACG
 88741 GGCTGCTTTA GTAGCAAGCT GCTTGCGCG AGCTTTGCCG CCGGTAGACT TGCGAGCTGT
 88801 TTGCTTCGTA CGAGCCATTT GCAATGAGAG CACACACAAA AGTGTAGTGA ACTGAGAGCA
 88861 AGTGGCCTTT AAATATAGTG AGAAACATTC TGATTGGTCC TGTAATATTT CAAAAGTCCC
 88921 GCGCGATAAA ATCATTGGCT GAAGAGTGAC CAGACTGATT GGTTCAATAC TAGACAATCT
 88981 TATTGGATGA GTTGCCCCAC CGCCCATCCT GTCCTTTTCG TTTCACTTAT CTGCAGCGAC
 89041 AAATTGTCTA AAATTCTAGT TCATCCAGTC CCAAAGAACA GAGTGTATAA CAAGGTATCT
 89101 AAGGATTTTT AAAATGTAAA TTCCGATTCA GTAAGTTTGA GTGGGACTTG AAATCTGCA
 89161 TTCCTGACAG TCTCGCAAGT TATCAATGCT GGTGAACACT CACTAAACCA CCAGAAACGT
 89221 TCAGACTCAT GTCGGGAAAT AACGCTTATA TTCAGAGAAT GAGATTCCAT GCTATTTTGT
 89281 TACTGGCGAA CAGCAAGTTT CCTTGCCCTT TGTTTTCTAA GTCCAAGTCA CATTCCCACC
 89341 CTGCCTGTTT TCAAAATGTC TTATTTTGGT TGGCCTTAAG TTTCACTTTG TATACTCTAA
 89401 AATGTACTTT CTAAAGGAAG GTGTTATTTT CTCGAAACTT AACTTTTTAA CACCATTAGG
 89461 CTAGGGGGGC GGTGGCTCAC GCCTGTAATC CCAGCATTTT GGGAGGGCGA GATGGGACGA
 89521 TCACTAGAGG CCAGGAGTTC AAGACAACCC TGGCTAAAAT GGTGAAACCC CGTCTCGCAT
 89581 AAAAATACAA AAAGTAGCTG GCGCGGGTAG CAGACGCTG TAATCCCAAG TACACAGGAG
 89641 GCTGAGGCAT GAGAACCGCG TGAAGCGGCG GGGTGGAGGT TGCAGTAAGC CGATATCGCG
 89701 CCGCTGCACT CCAGCCTGGG TGACAGAACT AGACTGTCTC AAAACAAACC AATCCAAACG
 89761 AAAAGCAAAA AATACCCTAA CAGAAGCAAG TTATCATCCT TTCTTGTGTA ACTATGGACG
 89821 GCTCTGAAAA ATGCCGTTT AAGTGTAAGC TACGTTTTCT GATTTGAGTG TTTACTTGAC
 89881 CTTGGCCTTA TCGTGGCTCT GTTATTTTGG CAACAGGACG GCCTGAATAT TGGACAGGAC
 89941 GCCTCCCTGA GCAATAGTGA CGTTGCCAG CTGCTTGTG ACCTCCTCGT CGTTTCGGAT
 90001 GGCCAGCTGC AGGTGGCGGG GGATGATGCT GCGGGTCTTG TCACGTATGG CGCTGCCAC
 90061 CAGTTCTAAG ATCTCGGCGG CCAGGTATTG TAAGTACACT GCGCACCGG CTCCGACCGG
 90121 CTCAAAATAA TTGCCCTTTC GAAAAAGATG ACGGACTCTG CCCTATTGGG AACTGCAAGC
 90181 CCGGTAGCGA CGAACAAGTT TTTGCTTTAG CTCCATTTTC CACGTCCGCA AATAGCGACC
 90241 TATGAAAGCA GCGGAAACT GTGAAAGACA AGCAAGCTGG AATGGCGCCT GAACAAATCC
 90301 TTTTATACAA ACTGCAAGGC TGCAATAGGA AGCTATCCTA TTGGTCAATT ATGTTTGGTG
 90361 CTTTATCCAA TAGAAAAAGA TAACATAAAT TCCATATTG CATAAACCCC ACCCCTCAGT
 90421 GAAACCGTGT TTCTTTTGTG CAATCAGAAG TGAGGAATCT TAAACCGTCA TTTGAATCTC
 90481 AGGACTATAA ATACATGGGC TCTGAAGTGT TCTCTGTACT ACTCTGTAGT GGAGAGTGTT
 90541 AGTAGCTTTT CTATTCTGTT TAGGAATAGC AATGCCGTGA CCCTCTAAGT CTGCTCCAGC
 90601 CCCTAAAAAG GGTTCCTAAGA AGGCTATCAC TAAGGCGCAG AAGAAGGATG GTAAGAAGCG
 90661 TAAGCGCAGC CGCAAGGAGA GCTATTCTAT CTATGTGTAC AAGGTTCTGA AGCAGGTCCA

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90721 CCCCACACCC GGCATCTCAT CCAAGGCCAT GGGGATCATG AATTCCTTCG TCAACGACAT
90781 CTTCGAGCGC ATCGCGGGCG AGGCTTCTCG CCTGGCTCAC TACAATAAGC GCTCGACCAT
90841 CACCTCCAGG GAGATTGAGA CGGCTGTGCG CCTGCTGCTG CCTGGGGAGC TGGCTAAGCA
90901 TGCTGTGTCC GAGGGCACTA AGGCAGTTAC CAAGTACACT AGCTCTAAAT AAGTGCTTAT
90961 GTAAGCACTT CCAAACCCAA AGGCTCTTTT CAGAGCCACC TACTTTGTCA CAAGGAGAGC
91021 TATAACCACA ATTTCTTAAG GTGGTGCTGC TGCTATTCTG TTTCAGTTCT AGAGAGTCAA
91081 CTGGAATGTT AGCGAAGACA AGTTTTAGAG CCAAGGTTAA CTTGGACGGG GCCGTGCGCG
91141 GTGCCTCTTG CCTTTAATCC CGGCAATTTG GGAGGCCGAG GCGGGCGGAT CACGAGGTCA
91201 GGAGATGGAG ACCATCCTGC TTAACACGAT GAAACCCCGT CTCTACTAAA AATACAAAAT
91261 AATTAGCTGG GCGTGATGGT GGGCGCCTGT AGTCCCAGCT ACTCGGGAGG CTGAGGCAGG
91321 AGAATGGCGT GAACGCGGGA GGCGGAGCTT GCAGTGAGCC GAGATCGCGC CATGGCACTC
91381 CAGCCTGGGT GACAGAGCGA GACTCCGTCT CAAAAAATAA AAAAAAATAA AATTAAAAAA
91441 ATATGAAGTT TTGAAGCAGA AATTATTTTG TCGTATGTTT TTTTATAAAT TTTTGCCTG
91501 CCTGCCCTCT TCCTTTGTTA CAGAATCCCA ACACCTACCC AAAGGTAGCT GTTGGGTCCG
91561 GGTTTCTGTA CTATAGTCCC TTCTGTGGTG GCCAGAAATA TGTTACAGGA AAGAGGTCCC
91621 CATCCAGACC CCAAGAGAGG GTTCTTGGAT CCCGCGCAAG AAAGAGTTCA GGGTGAGTCC
91681 GCAGTGCAAA GTAAATGCAA GTTTACTAAG AAAGTAAAGT GGTGAAACGA CAACTACTCC
91741 ATAGACGGAG CAGGACATTC CCGAAAGTAA GAGGAGGAAG GCATCCACCC TAGGTACAAT
91801 ACTTGTATAT ATGGGGAGAT GTGCTCTGCT ACAAGTTTGT GATAAAGGAT TAATTTTCTT
91861 AGTTACTATA TTTTGCAAGA ATCAACATTA TTATCTTTAA ACAAATTAAT GAATGCCTTT
91921 GTTCTCCAGA TATAGGGATA TCTGGACACT CCTAAGTCTG AGTCTGTTTA GTAAACATTA
91981 TTTATTTGTT CCCTTAACCG TAAACATCTA GAAGCTAGGA ATGACTGACT TTCTGGGAAT
92041 GCAGCCGAGA AAGTCTCAGC CTCATTTTCC TAGCCCTCAC TCAAATGGA GTTACTCTGG
92101 TTCAAGTAAC TCTGACACTT TTCTTCTCTT TTTTCTTCTT TTTTCTTCTT CTTTATTTT
92161 TATTTTTTAT TTTTGAAATA AGAAATCAAA AATACTTGAT GTTTCATCTA AAACAATACC
92221 CATAATTGAT AAGCCAAAAC AAAAACCTAG GTCTTCTAAC TCAAACCTAG GATGTTTTGC
92281 TGTCTCTGCT GATACTCGGC TGATCGTTAA TAGGTAATTA ACAAACAAGC CTTGCTATGT
92341 CCCCCTCAGT TTATTACCAT TAGATCATAT GCCTACTGTC AATCATATTA ATCCACAAC
92401 ATGCATTTCA CAAACCTTGC CATAAAAATT CACAGGTTTC CCGCTTCCCT CGAGTTTTCA
92461 TTTCCGAAGG GTCCCATGTA ATATAAACT TATATTAAAT ACATTTGTAT GCTTTTCTCT
92521 TGCTAATCTT TTTTTTTGTT TTTTGAGACT GAGCCTTGCT CTGTCACCCA GGCTGGAGTG
92581 CAATGGCGCG ATCTCGGCTC ACTGCAACCT CCGCTTCCCA GGTTCAAGCG ATTCTACTGC
92641 CTCGCCCTCC CGAGTAGCTG GGACCAAGTA TACGTGCCAC CATGCCCGC TAATTTTTGT
92701 ATTTTTAGTA GAGACAGGGT TTCACCGTGT TGGCCAGGAT GTTCTCAATC TCCTTACCTC
92761 GTGATCCGCC CGCCTCGTCC TGCCAAAGTG CTCGGATTAC AGACGTGAGC CACTGCACCC
92821 GACCAATCTG TCTTTTTGTA GAGGGGCCCTC AAGCATGAAC TTAGTGATGG GTGAGAAAAA
92881 CAGAAATTTT TTTTCCCCTA CAATATAAAC ATTAATTGTA ATGTTATCAT TCAGGACATT
92941 TTGGTGACCA ATCTTACAGA AATTTTATCT TGTGCAAGTC TATGCAAACC AATATGTAAA
93001 TCTTCTATAA GTGAGATTGT ATTTCACTTT TCTAGTATCC TTTTAAATTA ATAAAAGAGA
93061 TTCTAATGAT TATTTTCATT ACTGCATTTT ATTGTAGGGA AGTAGATAAT TGCCCTTTAT
93121 TCACTGACCT TCGCTTTTAA AAAATTTAAA CCATGTTACC ATGAAAATGC TTTTCAGTAT
93181 TTCTCTACAC ACAAGATTGC TGTAAGGGCA AAAATAGAGA TAGGAATCAT GCATCCATTG
93241 ATATACATAT TTTGATTTTT AATACATGTT ACCAAGTTGC CTCCTGAAGG TCTGTTTACA
93301 CTCTACCAA CAGGGTGTGT TTTCTGACT TCCACAAATG CTCTTGAACA GTGGGTGTGT
93361 TAGTCTGTTC AAATTGCCGA CATGAACAAT TAAATCTCAT TGTTGTTTTT ATTTTTAAGA
93421 CAATTATTGT TTGAGACTGC ACATTTTGAT AATAACATTT CTTCTATTAT GGTTTGATTA
93481 CTCATGATTC TTGCCCATT TCTTTTGGGA TGTTGCCTTA TGTACATTAT TTTAAATAGA
93541 TAGCTCCATG TATTTAAAGA TTATTAAAGT TGAGGGCTTA TGATATGTCA GTTACATTTT
93601 TAAGATTTT TTTTTTTTTT TTTTGGAGC GGAGTTTAC ACTTGTGTC CAGGCTGGAG
93661 TGCAATGGTG CGATCTCGGC TCACCGCAAC CTCCGCTCC AGGGTTCAAG CAATTCTCCT
93721 GCCTCAGCCT CCCCAGTAAT TGGGACTACT GGCAAGCGCC ACCACGCTG CTAATTTTGT
93781 TATTTTTTATT AGAGATGAGG TTTCTCCATG TTGGTCAGAC TGGTCTCGAA CTGCCGACCT
93841 CAGGTGATCC ACCCGCCTCG GCCTCCCAA GTGCTGGGAT TACAGGTATG AGCCACTGGG
93901 CCCGCCACA TTTCTAAATT CTTTATAAGT ATAAATTCAT TCAATCTTCA CCAAACCTCA

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93961 ATGAAGTGTG AGTACTATTA TTATCATTGT TTTACAGATC AAAACAAGTA ATACAGTCAC
94021 TTACTGAGTT CTATACACCT GGTAATTTTT TTGTTTCGTT GTTCTATCAA TTATTGGGGA
94081 AGGGGTGTTG AAATCTCTAC CTTTAAATCA TGTATGTGTC TATTTCTCCT TTCGGTCTTA
94141 TCAGGTTTTG CTACACATAT TTTGCAGTTC TGTATTGTTG TGCATATACA TTTAGAATTG
94201 CTTGTTTTTC GTATTGGATT GACCCTGTTA TCATTATGTA ATATCCCTGT CTGTTCCCTAG
94261 TAATTTTCTT TGCTCTGAAA TATACTTATC TGATATATCA TCCAAAAGCA CACCAGGATG
94321 GCTAAAGAGT AGAAAGGAGA GATTTACTGG CAATACTAAT TTGCAAGCCA GGAAGAGATG
94381 GTCCCAAGAC CTGCCAAAAT TACTCTCTCT TTGGGGAGAA GGAGCAGGTT GGTTATTTTT
94441 ATGCCTCATA GGCTATATAT TACACAATAG AGTCATACAT ATTTAGCACG TTTGGGGGGA
94501 CAGCTATATA TATTATGAGG GGTGCCAAGT GCATTCACAA TGGATAAACA CGTGTAATAT
94561 ACCTCCCATG TTCACTTCGA GGTTAAATTT TGGTTAAAAT GAGGTAGAAT TTAGGTCTTT
94621 ACATCACAAG GTGAACATA GGAACAAAGT TTACGTGCTG CCTCTAGCAG CTGGCTGAAA
94681 ATGGCTTAAG GTCTACAATT ACGTGTAAGA ATAGAATGTG TGTCAGGGCG GTCCTCTGTC
94741 CAAACAGAGT TGTAGTGGAC TGGACTGTAA ATCAGAGTTA GGAGGGCTTC TGATAGCTCC
94801 TATAGTTAAG GAATTTAGCA AGTGTGAGTT TTTGGTAGT CTTTGAATTT TAGGAATTTG
94861 CCATGCCAGC CAAGCCATGA ATGCTCTACC AGTAGGTAAC TTTGTTGCT TAATCTTAGA
94921 GTCTGTCTTA GTTGGTATAG GGGCATCTAT TTTGGTCTTT CAGATCCCAG ATATTATTAA
94981 TACAGATACT CTTGCAGTTT TGGGCTGATG TTTATATGGC TTATCTTTTT TGCAGCCTTT
95041 AATTTCAACC TGCGTTATGT TTATATTTGA AGTGAGATTC TTGCAGACAG TGTACAGTTG
95101 TTGTTTTTTT TTTTTTGAGA TGGAAATTTCA CTCTTGTTGT CCAGGCTGGG GTGCAGTGGC
95161 ACAGTCTCAG CTCACTGCAA CCTCCGCTC CTGGGTTCAA GGGATTCTCC TGCCTCAGCC
95221 TCTTGAGCAG CTGGGATTGC AGCCATGCGC CACCACACCC GGCTAATTTT TGTATTTTAA
95281 GTAGAGACAG GATTCACCAT GTTGCCAGG CTGGTCTCGA ACTCCTGACC TCAAGTGATC
95341 CGCCAGCCTC GGCCTACCAA AGTCTGGGA TTACAGGTGT GAGACCTCGC GCCCAGCCAA
95401 ACTGTTTTTT TATGGGTGTA TTTATACCAC ACACATTTAA TGCAATTATT GATATCTTAG
95461 GGCTTAAGTT CATGAAGGGT AGTGTGGGAA CCATAGTCTC TTGGCCCACT AAATGTTTGC
95521 CAGAAATCAC TGACAAGGCA GATTGATTAA TAGGTGAAAA GGCATTTTAC CTATTGTTTA
95581 ACGTGTCTAT GTGGGAGCAT TCAGAATTAA TTACCTAACT TCCCAATGAG TTATAGATGC
95641 TTATATACCA TTTTATGATC ACAGAAAGAA TTGGGGCTTA GATTCGTGTA AAACAGGTTA
95701 TGGGAGGCAA AAGAGGTTTG GCTTGCAAAG GTGGCCTTGT TAGGTAGGTG AAGCCTCCCT
95761 CAGAAAGAAC AGATGGTAAA TGTTTCTTTT ATGATTTTTT AGTGTGAGAC TCTCAGTCTC
95821 TCCTGGATCT GGGGAAAGGT ATAGAAAGGT GAGGAGGCAT GGCTGCATTA ATGGAGATTC
95881 TCTACAGATG TAAAATTTTT CCAATTTAAG GCAGCTTTGC AAGCCCCATT CTGCCTGCTG
95941 GCCAAGCAGC AGCCATTTCA AAATATGTCA AAGAAATATA TTTGGGGTA AAATATTTTG
96001 ATTTCTTTTA GACTGGTGGC CTTATAAGAA AAGGAAGAGA CACCTGAGCT GACACACATA
96061 CCCTTGCTCT CTCAACATGT TATGATGCAG TAAGAAGGCC CTCACCAGAT ACTAATTCCA
96121 TGCCCTTAGC TTCCCAGGTT CTAGAACAGT AGGAAATAAA TTTCTTTTCT TTTAAAGTTA
96181 GCCAGTCTGT GGTATTCTGT TATAGTATCA CAAAATGGAC TAAGTAACATA TATTATGATC
96241 ATCTTACATG ACTGATCCCT CCTACATCAT ACACATACAC AGGCCACATT TGGAACATTG
96301 TTAGAGGTTT CTCTGCCAG TACAAATGTA CTACAAATTA TATATGTATT TTTAAATTTT
96361 TGAGTATCTT CAATAGTATA TTTTCGTTAA CTTTGTAGT CAAAATGTCA TTATAACATG
96421 TATTCAATAT GCATAATTAT TAGTCAGATG TTTTACATTC TTTCTTCATA CTAAGTGATA
96481 TGGTTTGGAT ATTTGTCCCC TCTAAATCTC ATGTTGAAAT GTAATCTCCA ATGTTGGAAG
96541 TGAAGCCTGG TGAAAGGTTT TTGGATCGTG AGGGTGAACC CCTCATGAAG CGCACTCTTC
96601 AGGGTAATCA ATGGGTCTC ACTTTGAGTT CACAAGAGAT CTGGTCTTTT AAAAGAGTGT
96661 GACACCTCCC CCATCTCTCT CGCTCAGCTC TCACCATATG ATATGCCTAC TCCCTCTTCA
96721 CCTTCCACCA TGATTGGAAG TTTCTGAGG ACTTGCCAGT AGCAGATGCC TGCACCACAC
96781 CTCTGTACA GCCTGCACAA CCGTGAGCCA AAAAAATTA CTTTTCTTTA TAAATTAGTC
96841 AGTTTCAGGG ATTCCCTTAT AGTAATGCAA GAACGAACATA ACACACTAAG TCTATTTTAT
96901 ATTTACAGAA TAGCTCAATC TGAAGTACCC TTTTCAACT TCACAGTAGC TACTTGTAGC
96961 TAGTGGGCAC TGATTGAGG CGTGTTCAAG GGTGAATTGT ATTATGCAAT TAACAGATTT
97021 TTTTTATTGT TTTGCGAAAC CACGAGGCAT AGATTGTCTT ACTTTCTCTG CTCCTGGTGT
97081 TGGAGTTGTT ATTGGGAAAC AACTTATTTT CCTCTTATAT TTATATGGAA TAAATAACCC
97141 CCAATATTTT CCTCCCAAT ATCTGCCTTT TGTATGTTTT TTGAAGGCAA GTGCCTAGAA

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97201 TTTACTGTTT TTGAAGCACT TACTGAAAGG ATTGCCATCA AGTTGTTTTG CTAATAGTAC
97261 ATGCCAGGCG CTTGTTGGTT TGCTTAATTC AAGGTAACCT GGATGAGAAG AAGAGTTTTT
97321 CTCATCCATG GCTCAGTGGA GTATAGATTA CTGATATTGT GACTGGATGT ACTCCTGCTT
97381 TCTAGTCTGA GTTTTTGAAG CTACCCTTAA TCTTGGTTTC AATTTTATCT AGCCCTGTAC
97441 ATATCCAAGG CTCTTCCAA AATGGTCTAC GATTTGTTTA GGAAGTTAGA ATAGCTGTAC
97501 TTTCTGAACC ACGGTTCCCTG ACATTTTCTG GACTTCAAAC ACATCCAGCA TTTTATCGAA
97561 GTATTTATCC TTCCTACTTG GCTGGCTTCT TCCTTGCCCT CAGGTCTGAA TTCAAATGAC
97621 ATTCTCCTGA TGAACTTTTC CATCCTTATT TCTATTCTTT TTTCTTATCC CCTTCTTTA
97681 TTTTCTCCCA CAGCACTCAT CACTTATCTC TACATTTTCA TTATGTATTT ACCTTATTGT
97741 GCACCTCCCA CTACAAGACA AGTAGCACCG TAAGGAAACA GGTTGTCTGC TTTTCTACTG
97801 CTATGCTCCC TGCACCTAGA ACACCTCTCG GCACCTAGCA GGTTTTAGT AAATATATGC
97861 TGAACATAATA ATGCTGGATA TACATCTCCC TCATGAACTC TCTAAATCCT TCTAATTTAC
97921 ATTGATCAAT CTTCTTTTCC ATGTGCTTTT GTATGATTTA TTGCTCAAAA TCTTTATTTT
97981 ATATGCAGAA CGTGCACCTGC TATTTAATCT TCATGTACGT AAGTCCTCCC TTCTCTGAGT
98041 ATAATCTCTT CAGGGCACTA TCTGAGATAA CTTTTTAACA TCTCCATCAT GAATCTTGTA
98101 CCTTTTCAAA GAAAATGAGC CAGTGATTAC TGATGTTTAC GGCTATTGTT GAGGGTGAAG
98161 ATCATTATAA TTTTGAAAAG GGAAGTTGAA TATTGTGAAG GGAAAGATAA CACTAGAGTC
98221 AGAAGACTTG GGAGAAGGCA AAAAACAAAC TAAAATGAG CACTTTTAGT CTCTGCACAG
98281 TTTCTCTGAA TCAAATCCAT AGTTCGTGTA CAGCGTTGGC TTAGAAGCAG ATTTTTTTTT
98341 TTTTTTTTTT TGAAATGGAG TTTCGCTCTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC
98401 GGCTCACTGC AACCTCTGTC TCCAGGGTTC AAGCGATTCT CCTGCTTCAG CCTATGGAGT
98461 AGCTGGGATT ACAGGCTCCC ACAACCACGC CCAGCTAATT TTTTGTATTT TTAGTGAAGA
98521 CTGGGGTTTC ACCATGTTGG CCAGGCTGGT TACGAACTCC TGTTCTCAAG TGATCTGCCC
98581 GCCTTGGCCT CCCAAAGTGT TGGGATTACA GGCATCAGCC ACCGTGCCCC GCCAGGAGCA
98641 GAATTTTTTA CACTCATGTT TCTTTTCTCT TCTGTCATCC TGTTTCAAGTA TAAGCAGACC
98701 ACAGATAGAA GTAGTAGATA CCTCAGAAAT TCCTGGAATA ATTAATCCAC GTTCATCTGT
98761 ACTCCATCTG CTCCTATCTC ATGGAATATA AAAGGAAAAA CACCAAGATT TCCCTAGGCA
98821 ATCTGTCTTG ATTTTAGGTT CCTCAACAGG AGAGCCAGAC AATGGCTGTA ATAATATTGT
98881 CCCGGCCCAAG GAAAACTTC CCCTTTGCCC TCCCAAGGTT TATGGAAAAT TACTGGCAAA
98941 ACACAGATTA ACTGGAGAAA AGGCATATAT ATTTATTTCA TCACAATTTT ACAGGAGATT
99001 TTAGAATTAA GACTGAAAGA TACAGGGGAA ATTGCCCAT TTTATGCTTA GGTTCACAA
99061 GATAAACAGC TGTATAGGGT ACGATCTAAT GCTAACAGAC TGAGTGGGGA AGCCCCGCAA
99121 GGCTTGCTG TCAAGATTCT TCTTGACCTC TCAGTGCAGC ATTTCTTCC TCTGGTTATA
99181 GGACAAGACT CTCTTTTAGA ATGGGGGGTC TTATGACCTA CAGGCAACAA AGGTAGTTA
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99301 CTACCTTGAG GAGGAATTCT GGTTTCTATG GCTAGACTTT GGGGAGAATG GGACTTACAG
99361 ACAGGAAGGC AGAAGGTGGT CAGTGAACA CTTTTATAAT CATAATCCCA TTTTGAGTAT
99421 TTCTGTGTTA TGGAATGTTT GTTCTCTCAT TTCCTGAAAG ATTCCAGAGA CTCTCATTC
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99601 AATCAAAAT TTGAAAATTA AAAAAAATT CAAAAGGAA TTTAGTTGTT AAGATTCACT
99661 TCCCTGGGGA ATCTCATCAA CCAGAGAAGA TTAAGTGTAT CACAGGAGAG GAGACTGGTG
99721 GTTAACACCA TCTAAACAGA CTTTGTACCA GCTGTCACCT ATTCTTTGAA ACACCCATTT
99781 ATTTTCTCC AAAATCATAT ACTCTCCCT AAGTTGCCTA CATCCCCCT CTTTCTCCCT
99841 TATGAATCAA GAGAGCTTAT AAGCTTCTAC AGTTCAGTGG GATTTGGGGT ATTCGCTTTT
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100201 AGTGTGCTGA TTACGGCAT GAGCCATGTC GCCCGATTG AAGGACCTCT TAAATATCTA
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100321 ACGAGCGGCT GAAAGTCAAA ATAACCAGAA CAAAACCTCC ACTCATGCTT AAAAAAGGTA
100381 TTTTGACAAA ATCCTAATTC GGCCAATTAT TATTAGTATT CAAGTCGAAG GCTCGTCAAG

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100441	CCAGACTGGG	GATTGGGTCA	AACATAAACC	TTACACCAGA	CGGAAGGATT	ACATGCAAAT
100501	GAAGGATGCA	GATTCTGATT	TCCCATTGGG	TATTTGACAT	TAGCCAAATGG	GAGAATTCCT
100561	CACAGCCTAC	CTCCAGTCAG	TATAAATACT	TCTCTGCCCT	GCGTTCTAAT	GTAGTTTCAT
100621	TACATTTTCT	TGTGGCGATT	TTCCCTTATC	AGAAGTAGTT	ATGTCTGGTC	GCGGCAAACA
100681	AGGCGGTAAA	GCTCGCGCCA	AGGCTAAGAC	TCGGTCTTCT	CGTGCAGGTT	TGCAGTTTCC
100741	TGTGGGCCGA	GTGCACCGCC	TGCTCCGCAA	AGGCAACTAC	TCCGAGCGCG	TCGGGGCTGG
100801	CGCGCCGGTG	TATCTCGCGG	CGGTGCTTGA	GTACCTGACC	GCCGAGATCC	TGGAGCTGGC
100861	GGGCAATGCG	GCCCGCGACA	ACAAGAAGAC	CCGCATCATC	CCGCGCCACC	TGCAATTGGC
100921	CATCCGCAAT	GACGAGGAGC	TTAATAAACT	CTTGGGGCGT	GTGACCATCG	CGCAGGGTGG
100981	CGTTTTGCCT	AATATTCAGG	CGGTGCTGCT	GCCTAAGAAA	ACTGAGAGCC	ATCATAAGGC
101041	CAAGGGAAAG	TGAAGAGTTA	ACGCTTCATG	CACTGCTGTT	TTTCTGTCTG	CAGACAAAAT
101101	CAGCCTAACA	GCAAAGGCTC	TTTTTCAGAG	CACCTACGAC	TTCCATTAAA	TGAGCTGTTG
101161	TGCTTTGGAT	TATGCCGCCC	ATAAAGATGT	TTTTGAGGTG	TTTTTAATGG	CTTTGAGTGT
101221	GGCAGTTTAA	GTAATTTGTC	CTGCAGAAAT	TAGATCCATA	GAAACCTCAG	GAATTCCTAGG
101281	TATGTGGGAG	AAGTGCCATG	CAGCACAAAA	CATGTTTACA	GGGGTGATTG	GCGTTAAGTT
101341	TCACACACAG	CAGTTACTAC	ATTTTAGAGG	AAGGAAATTA	TACCCATGAG	TGCAATTCCTA
101401	ACTATCTTGA	ATGGAAGTGT	TAAAACCCGC	ATGCCCCACA	CAAGTTTGAA	TATGTCATAC
101461	CATTTGCTGT	AGCAATTAAT	GGCATAACACA	ATTGAGAGCA	CACACATTAC	CACTGAACAT
101521	TTGAGTATGT	ATTTCCCAAA	ATGAGCTTTT	TTCCAGTTTG	GGGATGTTTT	GCTTTGTTTT
101581	GGGGTGGAGT	CTCCCTCTCG	CCCAAGCTGC	AGTGACGCGG	CGTGATAACA	GCTCACTGTA
101641	ACCTCGAACT	CGGGCTCAAG	CGATCTCTT	GACAGCCTTC	TGAGTAGCTG	GGATTACAGG
101701	CGAGAGCCGC	CACGCCCGGC	TAAGAGCATT	TTTCTAATTG	CCCACACTTC	TTATGCGACA
101761	CCCAGAAAAA	TACAATTTTA	AATAAAGCGC	ATATGCAAAT	TTCCCTAATC	GTCTCCAATA
101821	TTCTCTGATT	TCTTTTTTAT	ATTTTAACTA	GAAACAATTG	GAGGTTTCCG	CGTTGCTTTG
101881	TGTGGTTGTA	AATTTTAAGA	CTTCAGGAAA	CTTTTCCAGT	ACAAGACTTG	TCCACAGTGG
101941	ATATAGCAGC	TAAGGGGTTA	ACAAAATGAC	GTCAGAGTAG	CTACGGTAAT	GGGCAGGAGC
102001	CTCTCTTAAT	CTGCAACCAG	GCACAGAGAT	GGACCAATCC	AAGAAGGGCG	CGGGGATTTT
102061	TGAATTTTCT	TGGGTCCAAT	AGTTGGTGGT	CTGACTCTAT	AAAAGAAGAG	TAGCTCTTTC
102121	CTTTCTCCA	CAGACGTCTC	TGCAGGCAAG	CTTTCTGTG	GTTTTGCCAT	GGCTCGTACT
102181	AAACAGACAG	CTCGGAAATC	CACCGCGCGT	AAAGCGCCAC	GCAAGCAGCT	GGCTACCAAG
102241	GCTGCTCGCA	AGAGCGCGCC	GGCTACCGGC	GGCGTGAAAA	AGCCTCACCG	TTACCGCCCCG
102301	GGCACTGTGG	CTCTGCGCGA	GATCCGCGCC	TACCAAAAGT	CGACCGAGTT	GCTGATTCGG
102361	AAGCTGCCGT	TCCAGCGCCT	GGTGCAGAAA	ATCGCCCAAG	ACTTCAAGAC	CGATCTTCGC
102421	TTCCAGAGCT	CTGCGGTGAT	GGCGCTGCAG	GAGGCTTGTTG	AGGCCTACTT	GGTAGGCTCTC
102481	TTTGAGGACA	CAAACCTTTG	CGCCATCCAT	GCTAAGCGAG	TGACTATTAT	CCCCAAAGAC
102541	ATCCAGCTCG	CTCGCCGCAT	TCGCGGAGAA	AGAGCGTAAA	TGTAAAGTCA	CTTTTTTCATC
102601	AGTCTTAAAA	CCCAAAGGCT	CTTTTCAGAG	CCACCCACTT	ATTCCAACGA	AAGTAGCTGT
102661	GATAATTTTT	TGTTGTCTTA	ACAGAACAAA	TTTCTAAGGA	CCCCCCGGA	AAGCATTAGA
102721	CTATGGTCTT	AAAGTTGATT	AACAGAAATA	ACGGTTTGGT	CAGTCTTGCA	GTGTAGGTTA
102781	TTTCTGACCT	TATTAAGGTG	CTATTTGGAG	AGAAGCTGTG	TAAGTCCACT	ATCATTACAGG
102841	CCTCTAGCTT	GCTATGATTA	GCATTTGTTT	AAACAACCTT	GTAAGAGTAA	GGGAAAAATC
102901	TGGTAAGTAG	TTAACTGGCG	CTTACTAGGC	ATTTTGTCAA	AGCTTTGAAA	AGATTAGAAA
102961	ATTGTGTCTT	GCGAGTTCCA	GTGTCTTCCT	CAAAATGCTT	AGGAAGATTT	TCTCAGTCA
103021	ATACATAGTC	CCCTAGGTTT	TCTCATATAT	TATATATATA	TATATATATA	TATATACTGT
103081	TAAATTCATT	TGGCTGTAA	CATTAACCTG	AAATTTATTC	TGGTGCAAAA	TGTGAGGCAG
103141	GGATCTAACT	GGCTCTCATT	TTATCCATAG	CTAGCTACCC	ACTTTAAATC	TGTCAGTCTG
103201	TCGACCAAGC	ATAATTTAAT	CCCTTATATA	TGAATTTTAA	TATGTGTGGC	TTTGCTTGTA
103261	AATAGTCTAT	CTGGTTGCAT	TGCTTTGTCT	CCTCTAGGAC	TATGCACCAT	GACATGCCAC
103321	ATTCTTTTTT	TCAGTACTTC	TTGCCTGTAG	TTATTAATAA	CTAGAATTTA	CAAGTTTTTAA
103381	CCATTTTCTT	TCTGTGTATC	TTGCTTTTCG	GTTTTGGAGG	TTGGGGATTG	AGTACTGGAA
103441	GAAATTTTAG	AGGGATGGGA	ATACTGTACG	CAACAAAAAG	TAATATTTAC	TTTAAAAATT
103501	TTATATTTTG	TATTTTTTTA	TCATATAGCT	TTTACATCAC	ATTTTACAGA	CTAAGTTTAG
103561	AACAACCACA	GAATGTCCAA	CATTAAAACT	ACTAATTCCA	AAGACCTTGC	CTCACATTCT
103621	TTTTTACAAT	AAATATTTTT	TACACCTAAC	ATTCTTTCTT	GGCCTACATC	TAGAATGTAA

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103681	ACTGATGTAC	CATACTAAAA	TCGCCTGACC	AACTGTCAAC	AACAACAAAT	CACACACACA
103741	AAAGATTAAA	TTTGAATTGC	ATCGTTTACT	TAAATTCATT	TGTGTTCCAG	CTTTTAATAA
103801	GGCAGTTTTT	GGTTTATAAA	GTAATATTTG	CATTTTAAAA	ATTATGAAAA	TGAATATGTC
103861	AGTTTGTTTT	ATGATTCGTT	TTTCTTGACT	CTTATACAAG	CGACTCTAAC	TGGCATAGAC
103921	ATTTGTTATC	CACAGACAGT	ATAGATATGT	TAGAGATGCC	AATGGACTTG	GTCATGCCA
103981	AGGTGACTAC	TCACAAGCTC	TGGGCCCAGC	TGAAGGTCAA	GTATTTTTTT	TCCAGTTATA
104041	GATGTGCTGG	ATCTGATGTA	TAGCGCTTGA	CTTTTTTATAT	TTTCTTTATC	TGTAGGAAAC
104101	AAATGTGTTG	GAGGTACTGG	GTCTGACGAA	TAGCATAAAA	GAATAAAGTT	ACATTACTGT
104161	CTGAGGATCA	GATGGACAGG	GGGTGGTAGC	TCAGTCCAGC	TATTTTCCAC	TCCCTCACTT
104221	ACATTCCTTG	CCCCCTCCTC	AACAGAACAA	GGATTCTGCT	GTAACCTCTC	ATTGACAGTT
104281	GATATTTAAA	AATTAACGAA	TGGATGAAAT	TCTCATTTGT	GAAAGAAAAT	TTATTGAGCA
104341	TTTTGTATTT	GTGAGTAGTG	CAAAACATTT	AATATTATAT	TAAGAATCTA	TGTTTTTGTA
104401	TTAGAGGAGT	AATTAAGGAG	AGATTGGAGA	CAAAAAGGGG	GTGTTGTTTG	CAGAATATAC
104461	CATCCAAAAA	TAGACCACTG	TGGGATCAGG	ATTCTTTTGA	GCTAAAGGCA	CTTCAAAAAC
104521	AGCATTCAAG	AAGGGAATTC	TTCTAAACTT	TTCTTTCTGA	AAACAGGAGA	TAAAAGTTCC
104581	AATGTGAAAA	ATGCTCTGCT	TGTACCAGGT	GAAAAGACAT	ATTCTTCAGC	CCAGAGGCAT
104641	AGATGAGATA	ATTCTGCACA	AACACAGCAG	GGAGTCATAG	CCGAGAGACT	TCTATACACA
104701	AACAAACCTT	GTTAAATATA	TCATATATTC	CTTTAATCTC	CTCATATGGT	TTACTTTCCC
104761	ACAATTGCCT	CTCTTTAACT	TAATGTGAAA	GCATTTAGCT	TTTGCCATTT	CTTTGGGGCT
104821	TCACTTTTTT	ATGAGGGTTC	TCCTGTCCCA	TAAAATTTAC	ATTAAATACA	TTTGTATGCT
104881	TTCACTCTGC	TAATCTGTTT	TATGGCAAT	GAATTATCAG	GTCCAGCTGG	AGACCCCTAAC
104941	AGAGTAGAGG	TAAAATTTTG	CCTCCCTACA	AGATAGAGAT	TGTGTGCATT	AAATGTTGTT
105001	TGTTCCCAGT	TGTTCAGTTT	GTCAGGCCTC	TGAGCCGAAG	CTAAGCCATC	ATATCCCCTG
105061	TGAACTGCAC	GTATGCCTCT	AGATGGCCTG	AAGTAACTGA	AGAAACACAA	AAGAAGTGAA
105121	AATGCCCTGT	TCCTGCCTTA	ACTGATGACA	TTACCTTGTG	AAATTCCTTC	TCCTGGCTCA
105181	TCCTGACTCA	AAAGCTCCCC	CACTGAGCAC	CTTGTGACCC	CCACCCCTGC	CAGCCAGAGA
105241	ACAACCCCTT	TTGACTGTAA	TTTTCCACTA	TCTACCCAAA	TCTTATAAAA	CGGACCCACC
105301	CCATCTCCCT	TCGCTGACTC	TTTTCGGACT	CAGCCCGCCT	GCACCCAGGT	AGAATAAACA
105361	GCCTTGTTGC	TCACACAAAC	CCTGTTTGAT	GGTCTCTTCA	CACGGACGCG	CCTGAAACAG
105421	TTTAACAGGG	TTTTTCCTGC	CCAGTCACAA	CAAAGTGATG	TTATGCTGCA	GGCTGAAGTT
105481	TACAGCTAAT	GCTGTTGAAG	TCTAAAATCA	GTTTTGTTT	GTTAGATTTG	GGTGAGATGG
105541	CTAAGATTCT	CAGAGAAAGA	AGTCAAGTTT	GGGGTGCAAT	TTTCAGACTT	AAAAATTTAG
105601	CAGTAGCCCT	TGCAGTTTTT	CCAATAGAAG	TGATTTAAGA	ATGTTTTTCAG	GAAATTTAAA
105661	ACAACAGTGA	GAAGCGTGTA	TGGAGAGTTG	AACTACACTC	CAGACTTGGC	TATAGGAAAG
105721	CACGAATGCT	GCTATTGTAT	TGCACCTTGG	AAAAGAGAAC	AAAGGAATAT	TTTCGGACAA
105781	TTTTAACATG	TCACATATGA	AAAGCTAAAC	GGAATCTGTC	AACACCTTGT	ACGTTATTAC
105841	AGGCTGTGAT	TTTAAAAAAA	CAATCCTTAC	TAATACATAC	ATAGTTGCTG	CTAGCAATAT
105901	AGTGTTGGGA	GTAAAAACAC	GAAAATGAGA	GTTCAGGACA	ATATCCCAAC	TCTGAGCAGA
105961	TTTTTTTAAAG	TAGTAACATC	TAAAATTTAA	CCATATTATG	TAATATTTAT	TTCTTTTCCA
106021	CAGTCTCTTC	TCATGCCTCG	TTCACTATTAG	CTAATTAAAA	GTCCCTTGAG	TATCATCATA
106081	ACCCGATTTA	CAGATGAAGG	CACGGTTGCA	ATGAGCTATC	ACCCTCTTCT	GAATGAGACA
106141	GTACAGTGTG	AAGGATAGCA	AAACTCCACT	CCCATCCTCT	TAGGGCTCTG	GCTGGACCAG
106201	CAAATTAAAT	TAATGTAAAA	TGGATTAAAC	GGAGAAAGGT	ATATGCATTT	ATTTAACACA
106261	GGTTTTACGT	GACACAGGTG	CTCTCATAAG	GTAATGAAAG	CCCCAAAAAA	GCAGTTAGCT
106321	ACTTATATAA	TGAATTGGAC	AATTAGTAAA	ATGTAAAAAT	GCGCTAAAGC	AAAGGGATT
106381	AGGCTAGAAT	ATATAACTGT	GTAGAGAAGC	GCCCAGCAAG	GGCTAGTGCA	AGGTTTGTAC
106441	AGAATTCTCT	TGGCCTCAGC	CTCCTATCCT	TGAGAAGAAT	GTTGCTTTTT	TTAAACTACA
106501	GTGAGAACAT	CTTTCATATG	AGAATTTTCA	CTACTGCTTC	TAAGAAACAG	GTCAGTTTTC
106561	AAGAAAACAT	AAGGCCAGAG	TGATCTTTTC	ACGCCTGCTC	TTTTAAGTAC	CTTTGAATAG
106621	TCAATATGTC	TTCAAGCACT	TGAAAGACTT	AAAAAGTTTA	CCACTCCGGC	ATATTAGTGA
106681	AAGCCCTTAA	TATAAGCCCT	TATTAAAAAT	CTCAGTCGAG	GGTATAAAT	CAGATTCAAA
106741	TAGTAGTGTC	GTAAACGGGA	GGGAAAAACT	AAAGGGATTA	AAAAGTGAAA	CTATTGTGTT
106801	CTCCCTCGCA	GTCCTTAGGT	CACTGCCCCT	CGAGGGGGCG	AGCAAAAAGT	GAGGCAGCAA
106861	CGCCTCCTTA	TCCTCGCTCC	CGCTTTCAGT	TCTCAATAAG	GTCCGATGTT	CGTGTATAAA

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106921 TGCTCGTGGC TTGCTTTCTT TTCGCGTACC TGGTTTTTGT TGTCAGCTGG TTAGACATGT
 106981 CTGCTCGCGG CAAAGGCGGT AAAGGTTTGG GTAAGGGAGG TGCCAAGCGT CACCGAAAAG
 107041 TGCTGCGGGA TAACATCCAA GGCAATCCCA AACCGGCCAT TCGGCGCCTT GCTAGGCGTG
 107101 GTGGGGTTAA GCGAATTTCC GGTTTGATTT ATGAGGAGAC TCGTGCGGTT CTCAAGGTGT
 107161 TTCTGGAGAA CGTGATCCGG GACGCCGTGA CCTACACGGA GCACGCCAAG CGCAAGACTG
 107221 TCACTGCCAT GGATGTGGTT TACGCGCTCA AGCGTCAAGG ACGCACTCTG TACGGCTTCG
 107281 GCGGTTAATC TTTTCGTCAG TTTTCTTCCA ATGGCCCTTT TCAGGCGCGC CCCTCCCTC
 107341 TCAGAAAGAG CTGTGATTGT ATTCTTTCGG ATGGTAACAT CTCAATGGCT TTACTCGGCT
 107401 ATTCTGCCAT GTATGTAGAA CTATTATAAA CCAGTTGGGA GAGACCAGGT TGTTTGGTCT
 107461 GAGTGGCTGC TAAAGCAGAA ATCAGCTAAG TAAACGAGGT CTCCGAGATA AGTGAGCTAT
 107521 AAACCTCAAT GCTATAGTTT TGACATGTCA AGCAACTTAA CGTGACGCGC GAGTCCGATA
 107581 AATGAGTAGC TCAGCTTTT AGTTTAAAAA ACGAGTTGTG CGTTATTTGT ACGAGAGCCT
 107641 AAGATGCTAG CTGCCTGGAA CTGAGTAGGT GGATTAAAAAT GGGTGTGAGG TCTGTTTTCC
 107701 CAGGCGTATC TGAATTAACG TCAGCAAAAG CTGTACTTTT AGCTTCCCTG GTAACACCTG
 107761 CCGTCCCTAA CCGCCCCCTG CCGGTAGCGC CAGAAGCCTT TACTTCCATT TCTAGTTGAG
 107821 CTTGCGCTCC TGCTGAGTGA CGTACCTCC CCCTTCTCTG GAGTAGGACT GCGGGTTAAA
 107881 GCTGCTTTCG TATTTTCAGT CCTCAGGCTG GAGGCTCCCC TAAGCAGGCT GCCTACGCAG
 107941 TTCGTAAATT CCCACTTAGT AGACTAAGGG AGTCTGTTTT ATAAATAAGG ACTCAAATTT
 108001 CTTCTGACTC CGAGGTCCGT GGCAGCAGCT ATAAGATGGA AGCCCCCTCT GATGTAAGAT
 108061 TCTCAGATGA CTTGCATCTT CACTGTACCT GTCAACCCAA TAGTCTTCTA TTCCTGCCTT
 108121 AAATTGTAAA TTCCAAAAC GATTTAATTG TGAAAGTTTC AAACGTACG ACCTAGGAAG
 108181 TGTCAAAGTT AGGTGACCAG ATTTTGTAGAA GTCAGCCAAA TATTCAGCAT CTTTGATTAA
 108241 GTAACAAATA TATTGATGGC TACTTCAGCA AAAAAATCA ACTTTGTTTT CTGGTTACTT
 108301 TGGTAACAAG CTTTCTCTGA CAGGAGGATA TAGTGAATAG GCAGTTGAAT AAGTGAGTTC
 108361 GGGTGAGAGG TCTGAGCTGG AGATAAAAAAT GTGTGAGTCA TCAGCAGATA AATAAATGCT
 108421 GAGACCAGAT GAGATGGCTA AAAACTGAAA CATAATGTAG TGCAGCATTG TTTGTAATAG
 108481 TAAATGAGTG GCAACTGTAA AGTTTTATC AGAAAGGACT AGAGTGATCT ATACATCCAT
 108541 AAAATAGAGT ATTTCTCTAC ACAGCCCTAC TAAAGAATGA GAAAGCTGTA CTCCACTACA
 108601 TACTCTGGTG TACTCTGGCT CAGTCTTGG ACTCCTCTTT TCTTGGCTAA CTCACTGGC
 108661 CTCACCACTT ACATGCTCTG TGCTCTGTCA AATAGTTTGT TCAACAGAAC ACCACGGCCT
 108721 AGCTGTAAGT GCCACGTAA CTTCTAGCAA TGCCAAAGCC TGTGATAGTG GCAGCTTCGG
 108781 GCTGTTTCTC ATTCCCGGGA TGCCTAACCA CCTCTCCAAA TTCTATCAGT TTGCTTCCAC
 108841 CCACTTCAAG CTTCAAGACG AAACATAGAG CTTAAGAAAT ATAGGCCCGG CAAGGTGGCT

108901 CACGCTGTGA ATCCCGGCAC TTTGGAAAGC TGAGCCTGGT GGATCACCTG GGGTCAGGGG
 108961 TTCGAGACCA GCCTGGCCAA TATTGTGAAA CCGCTCTCT ACTAAAAAA AAAAAAAT
 109021 TAGCTGGGCA TGGTTGCGGG CGACTGTAAT CCAAGCTACT CCGGAGGGTG AGACAGGAGA
 109081 ATAGCTTGAA CTCGGGAGGC AGAAGTTGCA GTGAGTTGAG ATCGCGCTAT TACACTTAGG
 109141 CCTGGGAGAC AAGAGTGAAA CTGTCTCTT AAATAAGTGT TTGCAATTAT AAACCATCTC
 109201 CCTGACCTTA AATCTCTAGA CTCATATACA ACTGCATATT TGATGTATCT AATTGAATAA
 109261 TGGGCATCTC GAACTGTGCC AAAATATGTT TATACGTAAA CACCAAGTCT GTTCTTCCTC
 109321 TGATATTTGT CATGTCAATC AATAGAATC CATTCTTCAA GCAGCTTGGG CCAGGAATTG
 109381 TGCAATATTG TTTGTCTCTA GCTTCTTACA ACTTTCACCC AATGCAGTCA GCTCTGTTGA
 109441 AAATCAATCA GAATACCTTT CATTGTTTTT TTTGCTGCTT CTCTAGGAGC AAGCTGCCAT
 109501 GCGGTTTGT CTGAATGACC ACAGTGACCC CAACTGGTCT TTTGTTTTCA CTTTAAATCC

109561 CCCTGTCATA CAGTTTTTTC TCTATCCAGC ATCAACAGTG ATCCTTTTTG AAGGTATTAT
 109621 GTCCACTGTC TGCTGAAAAG ATTCCACTGG CTTTCCATCA CCTTCATAAT AAAAACCAGC
 109681 ATCCTTATCA TAGCCTACAA GTAAGATGAC CAACCATTA AGTTGCGCTG ACTCTCAGGG
 109741 GTTCTCAGG GTGTAAGACT TACAGTGCTG AAACCTAGAA AGTTCCAAGC AAACCTAGGAT
 109801 GAGCTGCTCA ACCTACTAGA TCTGTACTCT GGCTACCCCTC TGACCTCATT CTCTTCGAG
 109861 TTCTTTCTCT TCACTGACCT TGCTGTTTCT GGAATGGACC AAGCATTTCC AGCATCAGCA
 109921 CCTTTATATC TATTCTTTCT CCCTAGAAGG GTCTTGTCTT GGATATCTGA ATGGCTCTAG
 109981 ATCTCATTTT ATTCAAGCCT CTTCTCAAA ACCAACCTTA CGAAAGAGAC CTCCTAATAT
 110041 CATCCCTTGT AAAATAAGCT TTTCTGCTCA TTTAGCATAT ATATATATAG TTGACTATCC
 110101 TCAATAGCAT ATATATATAA CATTTCCTCA CCTAGAATTA TATATGTAAT AATATATTTA

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110161 ACAAAAAATA CATATAACTA GATATATTTT ATTTTGTGTT TGTTCCTCTCT CCCCCAACTG
110221 GAATATATTT TTTGAAGGTA GGGACTTTGT TTTGTCCCAG AAGTATCCCT AGCACCTTGA
110281 ACAGGGCTGA CGTTTAAACAG GTAGTTTATG GAGGTTTGTT GAATGAAAGG ATGTGTGAAT
110341 TTTCTATGTA AGTCTCCAGG CTCTCCACTA AGCCCACCAG AATGCTAACA CAATCAATTC
110401 CCCATCTCAT TCCTTGACCT GCCACTGCCT GAAGCAATCA GCGTGCACTT TCTCTTTAGA
110461 AAATCTGGGG GATAGTCTAG GGGTTGCAAA TTAAGCAACA TTATCTTTGT TCTGAACAAG
110521 GACTGCATGA GTGTTAGGAC TGAAGAAGGC CCAAGGTGGT GGTGGGTATG CCTAAGATGA
110581 GTATGACATA TCAGCAATGC TATGAACATA GCAATGCTAT GAAAGGCCAG GCAAAACGTA
110641 ACAGGAGCTA GTCGTGGCTT ATTGTTACAA CGACTATACC TCCCATATGG GTAATCGATA
110701 TCCACACACC CCTCTACATT GACTCTGGAA TTCAGGAAAG GGAATTAAAA TTTTCTAACT
110761 TATGTACCCC AATGATTTCA ACAATATCTG GCATATGAGA TCAATAAATA TCTTTAAAT
110821 ACCAACTAAG AAAGACATAA AATGACCCAC CCTCCATACC AGGCTCATTT TTGCTCCTCT
110881 GATTCCTGAA ACTATCCAGA ATGCAGCTAT GAATTCTCTC CATTTGTCAGT TTTAAATTAA
110941 GCCAAGCTGG GTACTTGTGT AATTCCTCAA GAAATCCTGG ATGAAAACTG TCAGGTGGAA
111001 AACAGGACCT CAAAATAAAG AGACATCCAT CACTGAAGCT AACATCGTGA GGCTGAAATC
111061 AGTCCTATAA CAATGGTACC AAAAAGAGCA CAATGAGAGG CATTTGTGAA TATTTACTCA
111121 GATGAGAGTA AGATATTTCC CTATCAGCTA ACCTGAAGTT CACATCCCTT TTCCAGCTGA
111181 GTTCTGAAGC TAGATGTACT TAACTGGAAC ACATAACTGC ATCAGGAACA TCCTTTAAAA
111241 CTATGGCTAC CATGGCTTGA CTGGACAAAC CCCAGGCTTC CAGGTTTAGC ACAGGTGGCC
111301 CTTACAGAC CAACATTGCC TATGCTACCA ACCTCATGTC CTACCACCCT GCTTGCATCA
111361 TTTCTCTCTC TGCATATATA AAAATATATG TGTATGTATA TAATCAGCTT TATTGATATT
111421 TAATGTACCA CAAAATTTGC CCACCTTAGG TACAGTTCAA TGAATTTTAC CGTGTTTTCT
111481 TAGTTGTACA ACCATCATCA CAATTTAATT TCGGAATATT TCTATCACCC AAATTTCCAT
111541 TTCTGCGTAA AGGGGGAAAA AAAAAGGTTA ACTGCTGAAG GCCGCGGTAA CACTGAAAAA
111601 GGTGCCCTTT CTCTCTAAAA CAGATTTTAA TCTCCCTGA ATTTAGTGTC CTGGGTATTC
111661 CAGGAGTCTG AATAGGGTTT CAATTTTCAG GGTCTTTTAA ATAGAGTAAA ACTGTATTGG
111721 TGGCGATAAA TTTAGTATTG CTCTCAGTAC ATGATTGAGG GATACTTAAA TGTCTCTGTG
111781 ATTTTATTTT ATAATCGCTA AAAGATGGTT TTTTTTTTTC CTAAACAGG GTTTTTGTTT
111841 TTTCTCAATA AGCTTCTTAG CTTCCTCTCC GGCTCCCTGG CTTGCCTCAG GAAATATTAG
111901 CTCATCAGTT CTGATTGGTT GACAGCTACG AATGGCCCTC ATTGATTGGG CAGCGCTTCT
111961 TTGTCCTTGG GAAACTAATA CAAATTTTAA AACTACTTTT TTTTCCACTC TTTCTTCAGA
112021 GTTGAATAT CGTTGCTCCC CTACCCATAT GTAGTGAGTG GAGGGCAAAC TTGGAGTTCC
112081 CCTAATCTTT CTTTTTAGG ATGTCAGCTC AGTATCATTC ATCTTAATTA CACATTGAGC
112141 TTCTTGACTT AATGATACA GCTCTTCTTT TGTTTAGTTG GGCGGCCCTG AAAAGGGCCT
112201 TTGGTTTCAA AATGCAAGCT GTGGAGAAAT CAGCAACCTT AACCGCCAAA GCCATAAAGG
112261 GTGCGTCCCT GGCGCTTAAG CGCGTAGACC ACGTCCATGG CAGTGACTGT CTTGCGCTTG
112321 GCGTGCTCCG TATAGGTGAC AGCGTCACGG ATCACGTTCT CCAAAAACAC CTTGAGCACC
112381 CCGCGAGTCT CCTCGTAGAT CAGACCAGAG ATCCGCTTCA CACCGCCACG CCGGGCCAGA
112441 CGCCGGATGG CCGGCTTGGT GATGCCCTGG ATGTTGTAC GCAACACCTT GCGGTGGCGC
112501 TTGGCACCCC CCTTACCCAA ACCCTTCCCG CCCTTACCAC GTCCAGACAT GACTTCCCAA
112561 GAAGTGAACC AAGAGCAAGT GAGAGAATAG GAAACCGATC TTTATATATC TACGTTACCC
112621 CTGCCCCCAC CTCCAGCGGA CACTGAGACT GAAAAGCGCG CAGGCGGGAA ATGTGACGCC
112681 TACAGTCCGC TCCTTTAACC CCTCTTCCAA GCCCCAGGAA ATGGCGGGAG CAGCGATTGG
112741 GGGAGGGTGG GGAGATGAGG GTGGGACCAA GCAGGCTTGA CCAATGGCCT TTATTTTCTT
112801 AACAGAGCTA CAGGCTTTGA GGAAGTGGGT TAAGAATTAA ATGTAACCC ATTCTGACTC
112861 CAGAAATATT TTAAGTCGAA CTTTTTTTTT AACCGAATCT CTCTGTCGCC CAGACTGGAG
112921 TACATTAGAG CCATCTCGAT TCACTGAAAC CTCTGCCTCT CAGGTTCAAG TGTTTCTCCT
112981 GCCTCAGCCT TCAGAGTGTA GCTGGGATTA CAAGCGCTCG CCGTCGCGCC CGGCGTGTTT
113041 TTGTATTTTT CGTAGAGACG GGATTCGGCC ATGTTGGCCA GGCTGATCCC GAACTCCTGA
113101 TTTCTGGTAA TCCGCCCCC CTGAGCTCTC AAAGTGCTTG AATTACAGGC GTGAGTCACC
113161 GCGACCGGCC GAAATCGATT GGTTTTGAAG CCTTACAGT CATTAAGACG AAAAGTGCTC
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113281 TGGCTCTGAA AAGAGCCTTT GCTTGGACCG TCAGAGAGAC CACAGTAATC ACGCCCTCTC
113341 TCCGCGGATG CGGCGGGCGA GCTGGATGTC CTTGGGCATG ATAGTGACGC GCTTGGCGTG

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113401 GATGGCGCAC AGGTTAGTGT CCTCAAATAG CCCTACCAAG TAGGCCTCGC ACGCCTCCTG
113461 CAGAGCCATC ACAGCGGAGC TCTGGAAACG CAGGTCTGTT TTAAAGTCCT GCGCAATCTC
113521 GCGCACCAGG CGCTGGAAAG GTAGTTTACG AATAAGCAGT TCAGTGGACT TCTGATAACG
113581 GCGGATCTCG CGCAGAGCCA CGGTGCCCGG CCGGTAGCGG TGGGGCTTTT TCACGCCGCC
113641 GGTGGCCGGA GCGCTTTTGC GGGCTGCCCT AGTGGCCAAC TGTTTGCCTG GCGCCTTGCC
113701 ACCAGTAGAC TTCCGAGCAG TTTGCTTAGT GCGAGCCATG ACGGAAAAAC AGCACAGCGG
113761 AACACCCAAC ACTAGCGCAA ATACGCCCAT GAGCTGCTCT ATTTATAGTG TGTAAGTGC
113821 AGTGATTGGA TGATAGAAGA CGCTAAATAT GACGTTACAC ACTCTGATTG TCTATCTTT
113881 AAGCCAGCAA CAATCGTGCA GTTTCACCGG CTACTATATT CTATTCCAAC TCTACAGATG
113941 ATTATTTAAG TGGTATTTTA TTACTACTAT TATTTTATTT TACTTTTGCT TTGTTCCCA
114001 AGCTGGTCTT AAACCTGGGC TCAAAGGATC TTCCCGCCTC AGCATCCAGA GTAGCTGGGA
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114121 CATCTGGTTT TCATAACCTG AAGGCTGTGT TTATTTTCCA TAAAACAAGG CATTGATTCC
114181 AAAGGTATTA TAATTCCTCA ATTCCGTATA ACCTTCAGCT CTTTAGGAAA AAAAAAAAAA
114241 AAAAAAAAAA GAGGGAATAC TGCTCACCTC CTCTCCGAA ATGTACCCTT TACGGGAATT
114301 TCTGAAACCT TTCACAAGAA TTGGATTCTT TTGTAATGCT TTAATTGACT TAGGAGTGT
114361 ATTGAAATCT ACAAAGCATC TCAAACATAG TAGGATTACA CTATTACTCA GAAACATTTT
114421 CTATGAGACG TCTTCTCTT GATTATGCTC TTTGAATCCT AAACCTGCAG CGTTCTGCAG
114481 CTTTTGTTTT CTAAAGCCTA GGTGTACTCT GCCAGTCACA AAATGGCGTT TCTCCAGCAC
114541 TGCCGCCAGG TACCACCAGC TGGGAGTTGT TCCTCTTGC GAGCAGGAGG TGGACTTGGC
114601 CCAAGAGAAA CTGGATAGTG GTTCGCAGG AACATAATT AGCATTGCCA AGAGCTAATG
114661 CAATCATTTT GAAAATCTCA AAACACTGAA AAGTGGATTG TGACCTTTT AAATTACAA
114721 GAGACAGGCC ACATTCTATC TTTTGATTGG TTTAGGCTAT TTTCTTGAAC AGCCATTTAG
114781 AAAGCAGATC TATCATCCTT CATTGCAATG GAGCGTCCC ATTTTATTG AAACCAGTTT
114841 AACCCAATAG AAAAAAGGGA GGCAGAACCC ATTATTTAAA GTGGAACCTC CTGAATCAGA
114901 TAATTAGGAG TATTTCTTTT TCAAAGTTG CGTTTTTTCA GATACCTCGC TTATTACACT
114961 AAGAAAGGTT TATATCTTTC ACAAAGGTTT TACTTACAAA AATCTTCCAA TTTTGTATAC
115021 CTGTGTTTCA TAACTGACTA GCCGTCAAAC CAAGATGTAG AGTTTCCAAC CGTTATTTTC
115081 CAAATTTTFA GAAATTACGT GAAATATTTG AATGCATGCC TTCTCAATAA AATGGGACGT
115141 AGGAAGCACT GGTGCAGAAG ATGGGTACAA TACTTATCTG GGACCACTCC ATTATTTGGT
115201 TGGCAGCTTG TTTGAACAAA AAGGGGAAAA GCTCAGGTTA CTTAGCATGG TTCGGACTTA
115261 TTTGAAAACT ACCACAGCAG GAGCGGAAAT AAGACCGCAT TACCTCACTC TCTGCTGTGC
115321 TGTGCTAGGG GGTATCCAG AATAGGATTG TAGAAGTGGA TGTCGATTTA ATAGTTTTTT
115381 ATTCTCCCAT TAGCTGAGTC TCTGATTGGC AATGTGAGAT CGTTTTAGCT TATTGATACT
115441 TTGAAATGCA CTTAACAGCC ACAAACAAGT TAAAGGGTTG TTACCATAAA ATCTTATCCC
115501 CAGGGTGTGC TTGCATTTAT CACCCGTGTT TGCTTTCACA CTAAGTGGAC TTAACCTCCC
115561 AGCAGAATGC CTGTCAGGGA ACCGTTTCG TGGACCCAGC ATTTAACGCC TTTCCGAGGC
115621 TTGTGAGGCC CATAAATATT TGTGAATAA AAGAATGAGT TGACCATGTC ATGGTGCGCT
115681 GATTGCGTGT GCTGACATGG AACACAGGTT GTAAACCTTA ATACCAATTT GGGGCATGTT
115741 GTATGGATGA AAAGGGCATT GGAAATTCCT GAAGTGCATC CCACATTGGA CTGTGGAAAT
115801 AAGTTGCAAG TGCAGAAACG TTTCCACACT TGCAGTTTGA GTATTAATTG CAGCGTTTGT
115861 GAATTCTGGT GTTGTCTACG ATTCACTCTT GTTTGACGTG AAAGGTATTC GCGAGACACA
115921 TCGCTCTAAA ACATTGCCAG AAAATGTAAT AGAGTTGATG ACAACTGGCC CTAACACGGC
115981 CTAAAACTCG CACTTTTCTC TCCTCCGCA ACTATTCAA ACACTGTATT TTACATTTCT
116041 TGCAAATTAA AAATAACAT CTCTGGCAAC GGACCTCTAA AAATTTCTAA TAAAACTCCT
116101 CGGATGCTTG TGGCACTGCA TTGTAAACC GCCCCTCTC AACCTACTCC CTAATAAAGA
116161 GCTGCTTTTT GAGAGAGAAG CGGTACCCTC TGATGTTACT GGGCGGCAGT CTGCCTACAA
116221 TTTCTTTCAC AATGAGGCAA CCAGAGCGGC TTTTCTGTG TGTTTGCTTG CGTTGAGGGG
116281 AGCAGGACCA TAGGCCCTAG AGGCCCCAG CTGCCTTCTG AGACTGGCGG AAACCTCGG
116341 CAGCGCGCAG GGGGCGCTAG GCGCGGAGG GCGGGCACTG ACGGGCACCA ATCAGGCGC
116401 AGTCCACCCC TATAAATAGG CTGCGTTGGG GCCTTTTTTT CGCATCCTGC TTCGTCAAGT
116461 TTATACCACT TTATTTGGTG TGCTGTGTTA GTCACCATGT CTGAAACAGT GCCTCCGCC
116521 CCCGCCGCTT CTGCTGCTCC TGAGAAACCT TTAGCTGGCA AGAAGGCAAA GAAACCTGCT
116581 AAGGCTGCAG CAGCCTCCAA GAAAAACCC GCTGGCCCTT CCGTGTGAGA GCTGATCGTG

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116641 CAGGCTGCTT CCTCCTCTAA GGAGCGTGGT GGTGTGTCGT TGGCAGCTCT TAAAAAGGCG
116701 CTGGCGGCCG CAGGCTACGA CGTGGAGAAG AACACAGCC GCATTAAGCT GGGCATTAAAG
116761 AGCCTGGTAA GCAAGGGAAC GTTGGTGACG ACAAAGGGTA CCGGAGCCTC GGGTTCCTTC
116821 AAGCTCAACA AGAAGGCGTC CTCCGTGGAA ACCAAGCCCG GCGCCTCAAA GGTGGCTACA
116881 AAAACTAAGG CAACGGGTGC ATCTAAAAAG CTCAAAAAGG CCACGGGGGC TAGCAAAAAG
116941 AGCGTCAAGA CTCCGAAAAA GGCTAAAAAG CCTGCGGCAA CAAGGAAATC CTCCAAGAAT
117001 CCAAAAAAAC CCAAACTGT AAAGCCCAAG AAAGTAGCTA AAAGCCCTGC TAAAGCTAAG
117061 GCTGTAAAAC CCAAGGCGGC CAAGGCTAGG GTGACGAAGC CAAAGACTGC CAAACCCAAG
117121 AAAGCGGCAC CCAAGAAAAA GTAAATTCAG TTAGAAGTTT CTTCTAGTAA CCCAACGGCT
117181 CTTTAAAGAG CCACCTACGC ATTTACAGGA AAGAGCTGTA GTACACAGAT GAAATCCCCC
117241 AAGCAAATGC AACACGCCCT CAATTATATT AGAATCACTT GGAGAGTCGA TAGAACTTTA
117301 ACATAGCCTC ATCTAGTAAG AATTACTAC TCAATCTATC AAAGATAGCA AGGTGAATTC
117361 AAATGCACCG AGTTAAAAATC GAGTTTTAAA GTCACCTGGG TTTCGGTAGC CGGAAGTCCC
117421 GCGTCTCAG ACTCCAAGCT AATTAGTCAT AACCGTATTG AACCAAGGTT GAAGCCCAGT
117481 CCCAGGCTTG AGGCTTTTAA TTATACAAGG TTAAAGTGGG GATATTGCGT TTTGGGGTCA
117541 ATATTGCTAA AGTAGCATTT TCCGAAATTG GGTGGTCTTA AGAAATGCTT CTGGGATAGT
117601 TGGCAAAATA TATGGCTTAA CCACGCCCTC TCCACAGGAG TGGCTAGCGA GCTGTCTGTC
117661 CTTGGGAAGG ACGGTGACCC TGCTGGCGTG GCTGGCGCCC ACGTTGGCGT CCTCTGAAAG
117721 CCCCCCAGG TAGGCCTAGC TCGCTTGCTT TCTGCAGCGC CATCATGACA AAGCTTTGAA
117781 ACGCAAAATG CTTTCTTTGT GCAGCGCCTT ACCATGGGTG CACTTACGGG CTGTCGACTT
117841 GGTTTAGGCC CTTGTCAGGA CAAAGGAGCT TAGTTTGTG GAGTTTTAGA GCTGCAACCC
117901 AAAATCCCTT GCTCGGTTTC TCTGTTTTTA GAAACGGAAG CGCCCTGATT GGATATTTGA
117961 AAATTACTGT GCTTAACTGG ATCGTGTTC ATCAGTCGTG CAGGATTTTC AACCCCTGGT
118021 GAGCCACAC ATTCAAACT GAAGATCCTT TTCTCAGAAC TGCCCTTTTA AGCTTTTGCA
118081 ATTTTAATTC TGGGGGTCAG ATTTTAATAA TTGGACTTTT TTGTTTACAT CTGACAAGAG
118141 TATATGATGA GCCAAGTTTA CTCACTTTTA CTTAGTGCAG TTCAATTCTA AAAGTTTATT
118201 TTTGCGTGTG TGCATATGAG TTAATAATCA GTTGTATTTT TCAAACGGTC TTTTTTCAAT
118261 TGTTTTGCTT AGCTCCTTCC ATCGTCTAAA GTCAGGGATA CAGGCACATC ACATCCCTGT
118321 TCCCCCTTCC TCAAACTAAT ATGTAGCTAC CTAGGTTTAT CCTTTAAAAC AAAAATTCTC
118381 ACCTATTTTT GTGAGAAATA TACATGTTTT TCTTTGAACT AAGTATTTTA CATACACCTA
118441 TCTATATACA TGCATACTTG TGGTTTTGTT TTTTAAAAA AAAAAAAAAA AAAACACGTT
118501 ATCTTTTGAG ACTGGGTCTC AGTCTGTTGC CCAGACTGGA CTGCAGTGGC ATAATCACAG
118561 CACACTGTAA CCTCCAATC CTGGGCTCAG GCTATCCTGC AGCCTCAGCA TCCGGAGTAG
118621 CTGGGATTGC ATGCACGCAC CACCAAGCCG GGCTTTTTGT TTTTATTTTT TGTGGAGACA
118681 GTCACACCAT GTTGTTCCAAG CTGGTCTAGA AATGGCCTCA AGTGATCATC GACCTCCCAA
118741 AGTGTGGGA TTACGGTCAC TGTGCTGGC CTTGTATGCA TAATTGTTTT GTCTTTTGAT
118801 TAGGGTTATT AATTAAAAA ACAAAGCCTG GACGCAGTGG CTCACATCTG TAATCCCAGC
118861 ACTTTAGGAA GCCAGATGGG CAGATTACTT GAGCTCAGGA GTTCAAGACC AGCCTGGGCA
118921 ACATGGTGAA ATCCCATCTT GACAAAAAAT AAAAAAATT AGCAAGGCCC AGTGGCACGC
118981 ACTTATAGTC CCAGCTACTT GGGAGGCTGG GGTGGGAAGA TGAAGTGAAC CTGGGAGGTA
119041 GAGGCTGCAG TGAGCAGAGA TCGTGCCACT GCACTCAAGC CTAGGTGACA GAATGAGACC
119101 CAGTCTCAAA AAAAAAATAA TAAAAATTTT TTACAACGAT GTTATATACA CTTCTGCATG
119161 TTGCTTTTCT CTTAACCAAA CTTTCTAAA ACCCTGTCAT GAAAAAGAA ATCCTTCACA
119221 TGGAATAGCA TAAGTTATTC ATCCATTTCT TATTGATAAG CATTGATGTT TCCAGTTACC
119281 ACTGCTGAAC ATGGTGCAAT TGAATAGAAT TCCAGGGCTG AGATTGCTAG GTTTTAGGTT
119341 GTATTTTATT ATTTTATTTA TTTATTTATT TATTAGACA GAGTCTTACT CTGTCACCCA
119401 TGGTGGAGTA CAGTGCCATG ACCTCAGTTG CAACCTTTGC CTCCTGAGTT CAAGCGATTG
119461 TCATGCCCTCT GGTCTCCCGA GTAGCTGGGA TTACAGGCAC CTGCCACCAG GCCTGGCTAA
119521 TTTTGTATT TTTAGGAGAG ATGGGTTTTC ACCATGTTGG CCAGACTGGT CTCAAACCTC
119581 TGGCCTCAAG TGATCTGGCC ACCTCGGCCT CCCGAAGTGC TGGGATTACA GGTGTGAGCC
119641 ATGGCGCCAG ACCTGGACTT TGTCTTCTGT TTCATCAGTC CTTCTGTTGG TTCAAGCACA
119701 GTATCACACT GAAGACTGAT GATTCTATAT AAATATGGTA AAGACTGTAC ACCCTAACTG
119761 TTCTATTTTT TTAATTTTAA GGCAATTTTA GATTCCAGCT TTCCAAAGAA TTGTGGAATG
119821 CTTAGAGCTA GAGAAGCCTT GGAAGTCATT TAGTTTTTGT TTTGTCAGAG AAAATTCTGT

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119881	AGAGACTCTG	TCCTGCTCTC	ACTGAATACC	ATCCCATAGT	ACCCCCCAAC	AGCTTTAAAG
119941	GGCAATAATA	CCTTATGGAC	AGTATGCTTT	TCCTCAAATA	TATTCTAAGC	CATGGTCAAT
120001	GCAAAAGAGT	GAGAAGGAAA	GTAAGAATAAG	TTATCTAAGA	ATCAGTGGGT	GCTCTCTTTA
120061	AACTGATTTA	TCACTCCCCC	TTCCAAACTC	TCTTGAAGGT	CACTCTGCCT	CCCTTTCTAC
120121	ATAAGAACTC	CTAACTCCAA	GGGAGGAAGG	TAAGTTATTC	TTATTCCTTG	CTTAGAAAAA
120181	GAGAAAATAG	GTTTGGTAAG	CATCCGCTTT	CTGCTACCAT	TCTCTGTGTT	TCTGTGTTTT
120241	TTATAGGATC	ATTCAATTAT	TGGTTGGCTC	TTGAGAGGGA	ATGCAAGGTT	CAAGGACACA
120301	AGCCTAGATC	TTGCCTGTAT	AGAACCTCAT	GATGTTATGC	TTCTCTAAAA	TGAGGCCTGG
120361	AGGAGACATG	TTGAAAGTGA	CCCATAAATC	TGCAGTATCT	CATGTCTCTC	AATGGGGACA
120421	AGGAGTACCA	TGGGAAATAG	CATTAGGTCA	ATGACAGTAA	CAACTCCCAG	GTGAGTTGAT
120481	TTATTCTTTT	ATTTATAAAG	TTGTTAATAT	GCTACATAGT	CCCTAATTTT	GCCACAAATA
120541	GTCATTATTT	TAATTTTCATA	TTTCACTATT	GATAAATGAA	GGAAAAAATG	AGTAGCAGTT
120601	AAGCAGTCCA	TAAACCTACA	TATAAAGCAA	ATTGGAGATT	TTAAAATTGA	TTCTGGATGC
120661	TTAAAATCCT	TCTCATTGAA	AAAAAATTTT	GTATTAGAAG	ATTTCAACAT	TCTTTAAACT
120721	GAGAAGCATA	ACATATAAAC	AGAAAACCAC	AGCAAAACAA	AAATGCAAG	CTCAATAAAT
120781	GAACACAAAG	TGAACACCAT	AATAATTGCC	ACACAAGTAA	AAAAACAGAA	AATCAGCCAA
120841	CCCTCCCAGA	GCCGCCTGAT	GCTTGCTTCC	AGTCACATTA	TCACTCCATC	TGCCCTAAAC
120901	ATAACCCCTA	TTTTGATTTC	CAATGCTGTA	ATTTAGTATG	CCTGTTTTTG	AAACATATAA
120961	AATGGAAATA	AAACAAATGT	AATCCTATGT	ACCTGACATA	TTTCACTCCA	GAACATTAGG
121021	TTTGAATAGA	TTCATCTGTG	TTGCTGTGTA	TAACTTTAAT	TCATTTTTAT	TGTTATGTAA
121081	TATTCCATGT	TATGAGTGCA	ACAATTTAGG	TGTCTACTGT	TGATGCATAT	TTGCTTCCCT
121141	TTTTTCAGCTA	ATATAAACAA	TACCGTGAAT	ATTCCTGTGT	ATGTGTCTTG	GTATATATAG
121201	GAATACATAT	TTTGTGTTGA	TACCTAGGAG	AGGAATTGTT	GGGTCAAATG	CTAAACTCTT
121261	TTTGAAGTG	GTGATATTAG	GTTTACATGC	GATGAAATGA	AAATTAAAAA	CACAGTTATA
121321	AACAGCATGG	ATGAACCTCA	CAAACTTAAT	GTTGATGGAA	TCTAGCTGGG	AATTCCTGTT
121381	CTTCCATATA	CTTCCCAATA	TTTTTTTCCA	ATTAAAATTG	TTAATCTTTT	GAAGATGTTA
121441	TCCATTGTGG	CAGATGTGCA	GTATTATCTC	ATTATGGTTT	TATTTTACAT	CTTTTGCCCA
121501	TTTTTTCTTA	ATTGGATTGT	ATATCAGTCG	ACTTGGGCTG	CCATAACAAA	AATACTAGAC
121561	TAGGTAGCTT	GAACAAAAGG	AGTTTATTAC	CTCACAGTTC	TAAAGGCCAG	GCCAGAAATC
121621	CTAAATTGAG	GTGCCAAGAG	ATTCACTTTC	TAGTGAGGGC	TCTCTTATTG	ACCTGAAGAT
121681	AGTTGCTGTC	TTAGATTGTT	TGGTGCTGAA	CAGAATACCA	GAGACCAAAT	AATTTATAAA
121741	GAATACAGAT	TTATTTCTTA	CAATTCCTGGT	GGCTATAAAG	CCTATGGTCG	AGGGGCCAC
121801	CTCTGGCAAG	GGCCTTCTTA	CTGTTATGGC	AGATGTGAGA	TGTCATCTCA	TATTCAAACC
121861	ACAGCAGTCG	CCTTTTGTGT	CCTCATGTGG	CCTCTTCATA	TGCCCATAAA	ATGACCTCAT
121921	GTCTCTTCCT	TTTCTTATAA	GGACACCAGA	TCTATCAGAC	TACTGGCCTA	CTCTTATGAC
121981	CTCATTTAAC	CTTAAATATC	TCCATAAAGT	CCCAAAATCC	CTATCTCCAA	ATATAGGCAC
122041	ATTGGGTGTT	AGAGTTTCAA	CATCAATTTT	GGGGGAACAC	AATTTAGGCC	AAAAAGATTG
122101	TGTTTTTTCT	TGTTGGTTTA	AGATAGCTGT	CTTTTTGTCC	TTTTTGTCTT	TTCTTTTTTT
122161	TTGAGGTGGA	CTCTTGCTGT	GTCACCCGGG	TTGGAGTGCA	GTGGCGCTGT	CTCAGCTCAC
122221	TGCAACCTCC	ACCTCCTGGG	TTCAAGAAAT	TCTCCTCCTC	CCAAGTAGCT	GGGACTACAG
122281	GTGCATACCA	CCGCGCCCTG	CTAATTTTGT	TATTTTGTAT	AGAGACGGGG	TTTCACCATG
122341	TTGGCCAGGC	TGGTCTCAAA	CTCCTGACCT	CAGGTGATCC	ACCTGCCTCG	GCCTCCCAAA
122401	ATGCTGAGAT	TACAGGTGTG	AGCCACCAAA	CCTGGCCTGT	CTTTTCTGTT	TTAAGTTTTT
122461	AAATTTTGCT	CACGAACCCT	TTATCCATTT	TATGTGTTGC	AGGTATTTCC	TCTGTAACTT
122521	GTCTTCACTC	TGTCAGAGGC	TGGAGTGCAG	TGGCACAAATC	ACAGCTCACT	GCAGCCTCCA
122581	CCTCCCAGGA	TCAAGCGATC	CTCCCATCTT	ATCCTCCTTA	GTAGGTGGGA	CTACATGTGC
122641	AGGCCACCAT	GCCCAGCTAA	TCCTTTGTATT	TTTTTGTAGA	GATGGTGCTG	TTGCCCAAGT
122701	TGGTCTCAAA	CTCCTGAGCT	CAAGCAATCC	ATCAACCTTG	GCCTCCCAAA	GTGTTGGGAC
122761	TAGAGGTGTG	AGCCACCACT	GCACCCAGCC	AATGATATCT	CATGATGCAT	TAAAGTCATT
122821	AATTTAGTGT	ACTCAAATTA	AGCACTATGC	CCTTTTATGC	ACAACCTTTT	TTGTATCTTA
122881	TTTAAAAAAT	CATTTTCTAT	TTCAAGGTCA	TGAAGATCTT	ATTTTATAAT	ACCTTCTTGT
122941	GAAATTAGTT	CTCAAGACTA	CCCTCACTTC	TAACACCAAT	TATAAGTTGG	GAGGCTGTG
123001	GTTCCCAATC	AACCTTAGGT	TAGTAATTTG	CTAAAAGGAC	TCACAGAACT	TGCTGAAGCT
123061	GTTAGCCTCA	TGGTTACAAT	TTATTATAGG	ATATATAGCT	TATTATGTCA	TTCCAATGCA

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123121	ATGTAAAATT	ATACAACTAC	TTTTAAAAAG	ATTTTAGCAT	TTGACCCAAC	AATTTCACTC
123181	TGAGGTATAC	AAACAGCAGA	TATGTGTGCA	CATATATACC	AAGACACATA	CACAGCAAAA
123241	TTCATTGTTT	GTAATAGTTG	AAAAGGGGAA	ACAACTCAAG	GAATAAAGAT	TAAAATCAGC
123301	TGAGAAAAGA	AACACACAAG	GCAGTATTAT	GGATCGAATT	GTATGCAGAT	CTCCCTTGCC
123361	CCCAGAAGAT	ATGTTTAAAG	TCCCAACTCC	CAGTACCTCA	GAATTGTGGC	CTTATTTGGA
123421	AATAGGATAG	TGTCAGATAT	AATTAGTTAA	GATGAGGTTA	TAGTACAGTA	TGATGGGCTG
123481	GTGACTTAGA	AGAAGTAGTA	TATATATATT	TTTTAATAGA	ACTAGTATTC	TTCTAAGGTG
123541	GTCACGTGAA	GACAGACACA	CACAGGCAGA	GACTGAGGTT	ATGCAGCTGC	AGGTCAAGGA
123601	ATGTCAAAGG	TTGCCAGCAA	GTACGAGAAG	CTAGGAAGAG	TCAAGGAAGG	ATTTTCCTAC
123661	AGGCTTCAGT	GGAAGCATAG	ATCTAATGAT	ACCTTCATGT	CAGATTTCTA	GCTTCCAGAA
123721	CTACAAGAGA	ATATATTTGT	TGTTTTAAGC	CACCCTAGCT	TCTAGCTCTT	TGTTACAGCA
123781	GCCCTAGGAA	ACTAATATAG	GCACAATCCA	GGCAAGTTCC	AAATATGAGC	TTCCAGTTGT
123841	CCTCTCCCAG	TAATATGAAC	AGTATTACTT	TCCCAGCATT	AATGTGTGAC	AATACACATG
123901	ACGTACAGAG	CAGTCCCCAC	TTATGCACAA	AACATATGTT	CCAGGACCTC	CAGTGGATGT
123961	CTGAAACCAT	GGATAGTACT	GAACTCTATA	TAGCTGTTTT	TTCTATACA	GACACAGCTA
124021	TGATAAGGCT	TAATTTATAA	ATTAGGCACA	GTAAGAGATT	AATAACAATA	AATTAGAATA
124081	ATTGTTAAGA	ATATACTGTA	TAAAAGTTAG	GTGAATGTTT	ATTTCTGAAA	TTTACCGTTT
124141	ATTATTTTTG	GACTGCAGTA	GACCACAGGA	ACTAAAACCA	TGTAGAAACC	GTATACAAGA
124201	GAAGTGTATT	TCACCCGAGC	CTCAGTGTGC	AGTTTTAATG	GCCTGCCATG	GTTGACTGCT
124261	CACATGGCCG	ATCTTTTAGT	CTACCTCCAC	AGGTAGAGCT	GATACTGTGT	GGCTCAAAGT
124321	TCCTATTATA	AATCACATTG	TTGACTGTGT	GGTGGTCAA	ACCTCCAGGT	AAACAAAGAC
124381	ACACTTATCA	GTGAGAACAT	TTCAAGGGTC	TAAAATTCTAT	CTCCCAGTAG	CTGAGGGCAA
124441	AGGCTAGACC	TCTTTTGGG	TAAAGATAAT	TTTTTACCAT	ATACTTTATT	TTGCTTTTCA
124501	TGTTTAACTT	TATTTTGCTT	TTCATGTTAG	TTCCCCTGGA	ATTGTTTTTT	GTGTATAGTG
124561	TGAAGTAGGG	GGTCAAGTTT	CTTTTTTTTT	CCTTTTTGTT	CTTTTTCTGT	TTAAAAGGCT
124621	ATACAATTGT	CCCATGCCAT	TTATTTACAA	GAGTCCTTTC	ACCATTGTTG	TATGGTGCCA
124681	CTTTAGATGT	AAATCAATGT	CCATATTTGT	TTGAGCCTGT	TCCATTCTGT	TGTCTATTTT
124741	TGGACAACAC	TGCCCTGATT	ATTGTCATTT	TATCAGTTTT	GATATTTAAT	AAAGCAACAG
124801	ATTTGTTTAT	TTTGGGCCCT	TGGATTTGTG	TATTAAATTT	GAACCCTGTT	TGTCAATTTT
124861	TATAATAAAG	CTTATTGGGA	ATCTGATTAG	GATTACAATG	GTTTGTGAGA	TCAGTTTGGG
124921	GACAATTAAT	ACCTTTAAAA	TATTGACCGC	TTCAACTGTA	AATATACTCC	TCCATTATTT
124981	AGTTTTCTCT	TTTAATTTAT	CTGAGTAATA	CATTATAGTT	TTCTTCGTAG	AAGTCAGATA
125041	CGTAGAAAAT	TCAAAGCCCC	AGTGCAATAG	CTCATGTCTG	TAATACCAGC	ACTTTGGGAG
125101	CCGATGTGG	GTGGATCACC	TGAGGTCAGG	AGTTTGAGAC	CAGACTGGCC	AACATGGTGA
125161	AACCTCATCT	CTAGTAAAAA	TACAAAAAAT	AGCTGGGTGT	GGTGGCGGGC	ACCTGTAATC
125221	CCAGCTAATC	AGGAGACTGA	GGCAGGAGAA	TCGCTTGAAC	CCAGGAGGCA	GAGGTTGCAG
125281	TGAGCCAAGT	TCCTGTCACT	GCACCCACC	CTGGGCGACA	GAGCGAGACT	TCGTCTCAAA
125341	AAAACAAAAA	AAAGAACATT	CAAATAATCA	ATGTAGATAA	TTCAAATAAC	TAAAAATGA
125401	ACAGTTATTA	AAATATCAGG	ATATAAAAGC	AAAAAAATCA	ATAACCTCCA	TATATACAAA
125461	ATGGCCAGTT	AGAGAAAAAA	AAAAGAATAG	GCGAGACTTA	AAAAGGCTGG	GAATCTCCCT
125521	GAAAATCTTT	GAGAGCCTTG	GCCCTGCCCT	CAGGGATTTC	TCTGGCTTCA	TGCCCAGATA
125581	CGGGTACAGT	TCCTTGTTTA	AAAAAATTTT	GCTCCATCAA	TCAACAAGGG	GCTCCTTCCT
125641	CAGAGCACAA	GGACCTCCAT	AACACCGGAC	ACTAGATGTC	TAAGGGACAC	CTCTTAAGGA
125701	AGTTAGACTT	CCAAAGAATG	GTGTTTCCTC	TGTCCCCAAA	CTCTGGAAC	CACAGCACAA
125761	CTGCTCCTTG	GAGTTCGGTT	TCAAATCTAC	AAGGCTGTCA	TGGAGGTTGC	AGACCAAGTC
125821	CGTGGCCTCA	GTGTCCGGAT	GTACGGTGGC	CTTGGCACCT	GAATGTGAGA	ACATGACCTC
125881	CCTGAAACCA	CCACAAGTAT	TGTTTCATGT	TATGTATGTT	TTTTCTTATC	TGAAATTCCT
125941	TTTCTTTAAA	AATTCAAATT	ACATATTTTG	CAAGCCCCTG	AACAAGCTTC	ATGAGCATTT
126001	ATTGAACCCA	CAGCTTTTAA	AACCTACTGA	ACACTTTGCT	CTATGTTGTC	ATTCACTATC
126061	CACCAATTAT	TTAATTATTG	ATCAATATTG	TTTCCTTAGT	GTTGGGATCA	TTTATGCATG
126121	TATTTCTTTT	ATATTGCATA	TTTATATTTT	CTGCATTACA	GTTATTACAT	ATTACTTTTG
126181	CTACAGTAAT	AGTTCAAAAG	TGTACATCCA	AAATTTAGCT	GTGAAGTGGA	TGGACTGAGG
126241	CAGAACTGGA	GGCAAGAAAA	TGTCACAGTA	ATTCTAAAAA	AGATGATGTA	CAATTAGAGC
126301	AAGAGAGTAG	CACTGAAATT	GAAGAAAAAT	AGATGCGTTT	GAGAGAAAAA	TAGGAGGTAG

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126361 AATCAACAGA TTAGATGTAG GGATGAGAAG GGTCAAAGAT GACACTAGGG TTTTAACTG
126421 GAGCAAGTAG GTAGACAGAA CATTTCTTCC TGAAAGGGCA GGTGAGATCA TGTGTTGTCT
126481 CAAAGGGCAT GAAGAGTAGA AAGCCTGGGA CAGATCCTGA GATGACCAAT ACCCATGGTG
126541 CAGGGAGAGG GAGGGAGATC TGCTAAAAAG ACTGCAAATG TCAGGATAGT AGAAAATCAT
126601 GAGTGTGTGA TGTCTGGAA GTTGAGACAG TATCACATTT GAGAACATTT AAATTGGTAA
126661 CTCTGACAAA AAGCTGGAGG CCAACTGTGA ATGCCCATGA GAGTGAGAAG CTCCCACACT
126721 TTTGTGGGCA TCAGAAAGCC CACCAGGTTT CTGCAGTGAA GATCTGAGAA GGATCCTCTT
126781 GTGGCTTTGG CAGGGAGAGA AGAATTATTA TGAAATACAC CCCAGAACCT TCTTCAAAAC
126841 AAAGGCCTAC TCTCAAGGGG AAAACATTTT GCCAGAGTCT TATCCCAGCT GGGAGAAGGT
126901 AATTCTTCCC ACTGCAGCCT CATCTAGGCT TTCTGTCTCA CTTAAGGGAA GAAAATTAGT
126961 CAACAGGGAT CAGAGCTTCA TGAAAATAAA TTGGAAATGG TGCAGCCAGG AAAGGAGCAA
127021 AGGTCTGAGG AGGAGGAGAA GGAGGAAGAG GAGTTGTATC ATTATAAATA CTTGAGGAAG
127081 AGGAGGAGAA GGAGGAGGAG GAGGAGTTGT ATCATTATAA ACACTTGAGG AAGAGGAGGA
127141 GGAGAAGGAG GAGGAGGAGT TGTATCATT TAAACACTTG AGGAAGAGGA GGAGGAGAAG
127201 GAGGAGGAGG AGGAGTTGTA TCATTATAAA CACTTGTGAC GGTCCCAGCC CCAAGATATA
127261 GGCATGCTAA TAAACTGAGG CTTAACACTT TGAATGAA AGAGCTGTAA GGAGAGACAA
127321 CATCAAGGCT CCAACTGAAT AACAATGAAT TATGAATGAA AGAGCTGTAA GGAGAGACAA
127381 AAGTTAGAAT GAGACAAGTA TTGTTATCTA GAGATGCCAA GAAGGCAAGG AAGATAACTA
127441 AAAAGGCACT CTGGATTTAG AAATAGGAAG TCATTAGTGA CCTTGTAAT AATGGAGCCA
127501 GAGGAATACC AAGGGCAGAA GCCTCACTAT AGTGTGTTGC ACCTGTCAGA GGTGAGGAGG
127561 TGTAAGTGAC TCTCCACAG TGTGGCTTTG GAAGAGAGAA GTCAGCAGCT GCATGGAGAT
127621 TTGGGAGAGG GAAAGCTTTT TTTTTTTTTT TTTAATTGGA AAAGACTGAG CTATGTGTAA
127681 ATAGAATAAG ACAGGAAGAG GTTAGACACA GGAAAGAGGG CAGACAAAA CAAGTGCACA
127741 GTTATCTAAG GGAAACAATG GGTACAAGCT GCAAGTATAT AAACCTGTCT TGATAGAGA
127801 ATCCTTGATC TGGTTTATTC AGTGTGTTGGT CCAAACCCAC ATCCTGTGTC TGCCTGTCTC
127861 TGAAGTGCTC TGTGCCCCAG AAGCCCAGCT TCTACAGATA GCATTAGCTG GGCAGCCCTG
127921 CCCTCTTGCA ACAGCTGGAT TTGGCCAGTG ATCAGCCCAG CAGGAATGTA GATGGCAAAG
127981 GAGAGAGAGG TTAGTGTACT TATTCCCTGC ATCAGCCCCC TGCTTGGTGG GCAGCTCTTC
128041 CTCCACAGTC CCAGCTCTGG CCTAGCTCTG GTTACAGGTT CCTCCCAT GCTCTTTCAG
128101 ATTTAAAGGT GTGTCTGTCA GGGTATAACT GGGAGCTAGA AATTGCACTG AAATTGAACA
128161 AAGAATTTTA TGGGAATGGT TGTAACTAG TTATAAGAGG ACTGAAAATG GAAAAGTGGA
128221 CAAACGTATC AGAGATAGTA ATGACAGAAA GCAACTACCA CCTCCAGGTT TAGGAGACA
128281 AGGAAAAGAT TCTTTGAAGA GATCCCCAGA ACTGGGACCT CTGAGGAGTG TATGCTGGAC
128341 CACTGATGAT GATATGTCTG TAGATAGAGG CATGATGAGG CTGATTTTAG GAGCATGGAA
128401 GATCTCCAAA CTGAAGCCAA CTGCTGTTAC TGGATTCAAC TGCCACTGCC AGGTTGAAGA
128461 ACCCATCTG TGAGGATGTC AACAACAAA GTGGGAAATC TTTTCACATC CTTCCAGCCC
128521 TCTAGTCTTC CTCCAGTGCT TTCTATTGGT AGGGTTTGGG GAGGTGGCTA GCAAAGCGGT
128581 ATTGGAAGAG ATAGAAGAGA CTAATCTTTC ATAACCAGCA CAGGGTGACA CTGGATCACT
128641 ACTGTTGCTG ATCTTGGGCT GCCTCATATC CCCTGTTCTT CCCATTAGCC CTGTCACAAC
128701 TTTGTAGATA TCCCTTCATT ATATGCCCTT CATATATTCT TTTGGTTTAA CTTTTTCTGT
128761 TGGAATCCTA ATATGGCACT CCTCCATTTT TCAGGACCAA AAGAGTATAA AAGATTATCT
128821 TTTACCAAAA AAAAGACAAA AAACGTATCT AATTCTGAT TTGATCATT CACAATCTAT
128881 ACATGTATCA AAATATCACA TAGTACCCCA TAAATATATA CAACTGTGTC CATTAAAAAT
128941 AAAAAATAAA GAAAAGATGG TAAATATAGC TCTGTCAGGC AGTGGAGGTT TTACCACGAT
129001 GGCTGTTATT TCCCCATGA AGGGGGGAGT GAGGGAGCAG CTGAAAGTAG GTGCTTATAG
129061 GGGTATAGAG GGGCTCAAAG CTTTGAGAGA GGAGAATGTC TGAAAGAGCT GCCAAATAGC
129121 ATGCAGGTCC CATGGGGGCA GAGCCTCTGC TCATTACCA GTGCCTCTTC AATATCTACA
129181 CTTAAGCCTA ACACAAAGTG TGTGCTTAAT AAGTATTTGC TGAGTATGTA AAGTGGAAC
129241 AGAACCAATC TGGCAAACCT TGTAGGACTG GTGGGCAATG AAGATCAGTC AGGTAATATC
129301 TGTGGATATA AATTTATATT GATCAAAAAA TTCAAGGTTA GGTGTTTTTC TTCAGTCATG
129361 CTCACGATG CTTACGCCAT GCTCAACTCT TCTGTAGCCA CAGAAAAAAG TTTACCCATA
129421 ATCGAGCTGT GTCTGTGTCT GAATAATGAA AAGACCATGA TGCAAGGGAG TTGGAGACAC
129481 AGAAACAGTG TTTGAAGTAA TGGGTAATGG AAGCATGCTA CCAGGGAAAG GAAAGAAGTG
129541 GCAATAGGAA GGAACAGAGA TCTGTGCTCC TATGTCCCTT GAGCATATTC ACATGTTAAA

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129601 GCTAATTCAG TTTTCAATCA TCATTAAAAAT TTTGTTCTTA AATATATGGC CATTATTTTC
129661 CACAACCACA CTAAACTTT ATTACCTCTG GCAAGTGACT ATGCAAGTAA CTAAGAGCAA
129721 AAATATCCAC AACTACCATT TGAGCTATCA ATTTAGGGAA AGTCATCTGG CTATAATCTA
129781 AGTGACCCTC CACTGAATGT CAGTATCTTT GCATATGTGA TTTAAATCTG GGCCTTCGCA
129841 ACACCATGAA CTGTTCTTGT CTTGAATATC CAGATTGAAG GAAATAATCT GAGTAGTTAC
129901 GAGTCCTGAA GCTAGAAAGA TGGAAACCCC ATTTGCTCAT CAGAAAGCCT TAGAGCTTGG
129961 GCGCTGGCGG GTCCTGTCTC ACCGGGACAG AGGGGCTCTT TCCTCCCCAT CTGATAGTCT
130021 GATAACTAGA GAAGCCGGCC AACTTATTCT CCAAGAAGGA GCCATCTTAG TTCCTCCTGA
130081 AATGTTTATA TTTAGAAATT ATTGTTTGTC AGTAATTTAA CCCCTTAATG GGCTTGCTT
130141 GTGGTCCATA CCACTGAGTG CAGAGCTTGC CTGGAAGAAT TGTGAGGGCC ATTCCATCTT
130201 CCAGGCAGTA GAGTTCAGTA CTTCTTTAAA ATTGCTGCTG AACTCTGTAT TTGAAAAGAA
130261 AGAATCATTT GGGTGTGGTA GCTCACACCT GTAATCCTAG CGCTTTGGGA GGCTGAGGTG
130321 GGAGGATCAT TTGATGCCAG GAGGACCACT TGAGACCACC CTGGGTAACA TAGCAAGACC
130381 CTGCTTTTAG AAAAAAAAAA TACAATAAAA TAAATACAAAT AAAAATAAAA GCAAAAAGAA
130441 AGAGTCCATC TTAGGGACAG ACTGTAACCTA CTCCTGGAG CTTACCTTTA CATAGTTTAC
130501 GATCAATTAT AATAAAACAC TTTTGTGTCAG ATTCAATAGG ATTATTTTAA TCCCCATCAT
130561 CTCTCTGAGT TTCCAGTCAG TTTCTCTGCA TGTAGACACC CTTCTCCAGC CCACCATTGT
130621 CTCTCCTCCT ATAGCTCCAC CAACAAATCA GAACTTTTC TAACTGCACC TAGTGCACCT
130681 AGAGTCTACT CCAGAATGCT CATGGAGAAA GTTCTGAAA GGTAAACTC TGAATGATAT
130741 TTGTAGCTAA AGGGAGACTT GCTAGAGACA ATAAGCTAAT AGTTGTAGAC TTCAGTAGAA
130801 GAGGAATGAC ACTGCAATGT CAGGGTGCAG GACTTCAAGA GGGCAGAGTA TGGAAACCCA
130861 ATGGGAAAAA TGCTCACCAG GAACATGAAG AGAAGGAATT ACGTGTAAGG ATTTCTCAAT
130921 GTGTTCCCAA ATTTGCCAG CAGAGGGAGG CCTCGGGTTG ATGGCAGGCT GACCACACAA
130981 TTAAGAAGG CTGAACCTGG GGGCTTTTAA CAACCATCGT GGGCTCTACT GTAAGCATTT
131041 AGAAAAAGAA AGTTATCCAT TCAAAAATAT ATATATTTT AAACTTCAGA ACAAATTAT
131101 GAAGAGCTAT ATTTACTTTT CTACATTCTA ATTTTATAA ATCTGAGTAT ATTTTGCATA
131161 TATTGTTATA GTACATATTC AATTTTGTAT TTTGCTGTTT TCACTTAACC ATTTTACTA
131221 GATTACTCTG TGTTTATAAT AATCACTTTT TTAACCTTT TATTTTATT TATTTATTTT
131281 TTTTTTGAGT CAGAGTCACA CTCTGTCGCC CAGGCTGGAG TGCAGTGGCG TGATCTTGGC
131341 TTAAGTCAAC TTCCACCTCC TGGATTCAAG CAGTTCTCCT GCCTTAGCCT CCTGAGCAGC
131401 TGGGATTACA GGTGTGCACC ACCAAGCCCG GCTAATTTT GTATTTTATG TAAAGACGGG
131461 GTTTCACCAT GTTGGTCAGG CTGGTCTCCA ACTCCTGACC TCATGATCTG CCCACCTTGG
131521 CCTCCCAAAG TGCTGGGATA ATCACTTTT ATGCTGCATA ATTCTTCAGA TTTGTAGTA
131581 CGACTGTATT TACACTCATT TGTTTTATTA GAAAGAATT CAGAATATT TGGCTGCCTT
131641 AATTAATTTT ACAATTAATA TGATTTTGAA ATTGGGTATT GGCTCCTTCT GAATTGGTTT
131701 ATTAAATAT ATTCTAATGT AATTTATGAC ATTTTCATCA TATTAGCATA TTTATTCTGT
131761 TAGAATTTCA TAATTTATAA AGCTACAAAC TGTATGTGAT ATAGCTTGTA ACTTTATCTC
131821 ATAACCTTAT GCAGTTACAA GTAGAAATAA AATGTTCCCC TCAAGATTGC TTAATAATTTT
131881 ATTATAAACA AGTGTAACAA ACAAAATCAC TAAACACTC CCTCTTTTTT CCCCCAAAAT
131941 GCATGTTTCC ATTTTAAACAG AACCCGTATT TAATCAGCAG ATTTCTATGG TGGCTAGATT
132001 TGTAGACTAA ATATTAAAAG TCCCAAAGCA AATGCATTT TCTCTTAAAT TTTACTGACT
132061 TTTTTTTTTT TTCTTTTTCT GAGACGGAGT CTTGCTCTGT CGCCAGGCT GGAATGCAGT
132121 GGCACAACTC CGGCTCACTG CAACCTCCGC CTCCCGGATT CACGCCATT TCCTGCCTCA
132181 ACCTCCCGAG TAGCTGGGAC CACAGGCGCC CGCCACCACG CCCAGCTAAT TTTTGTATT
132241 TTTAGTAGAG ACAGGGTTTC ACCGTGTTAG CCGGGATGGT CTCGATCTCC TGACCTCATG
132301 ATCTGCCAC CTCAGCCTCC CAAAGTGCTA GGATCACAGG CATGAGCCAC CGCGCCCCGC
132361 CTACTGACTT TTATCCAAAG AAAATATAAG AGCTCTTCAT CATAACGTAT GTTCTTGCT
132421 CTTGTTATTA AATATGACAC ATTTAGACTT AAAGTATTG GAAGGTTTAT GACATTGTTT
132481 AAGTTATTAC ATAATTAATT CATAAGATA ATGACTAGTT TGAAGTACTG ACAGCTCACA
132541 CATCATCAGT TGAACAGCAG AAAGCTTACT AAGCTACTT CTTATGTTT TGTCTCCAG
132601 CTACTAAAAG AAACGAAACC CTTCCAGGTG TTAAGGCAAA ACTTTCCTCC CCGTTCTTTC
132661 TATAAATCTG ATTCCATGTT AGTGAAATTT CTAAGTATGG CTTTGGTTTC CTCTATAGTA
132721 GAATAGAGAT CCTATGGCAA AAGTCATGTC TGACATGGTA GCAAATAGAA ATGGGGAAAA
132781 GGAAGGTCTG CAAGAGCCAA TGTGGGAAAT GGGGAGAGGA CTGACTACAA AAACCCAGCA

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132841	GGAATTCCAG	AAGAAAAC	CTCAGGACGG	GCACATTGGC	TCATGCCTGT	AATCCCAGTA
132901	CTTTGGGAGG	CCGAGGTGGG	CAGATCACTT	GAGTCCAGGA	GTTTGAGACC	AGCCTGGTCA
132961	ACATGGCGAA	ACCTCATCTC	TACAAAAAAT	AAAAAAATTT	GTCAGGCGTG	GTGGCATGCA
133021	CCTGTAGTCC	CAGCTACTCA	AGAGACTTAA	GTGGGAGAAT	CACTCGAGCC	TTGGAGGTGG
133081	AGGTTGGTGA	GCCGAGATCA	CGCCACTGCA	TTCCAGCCTG	GGCGACAAAG	TGAGACGCCA
133141	TCTCAATCAA	TCAGTCTCCT	CGAAAAGCAA	CATTATGGAG	AGACAGGATT	CCGTCAAGGC
133201	CTGGGGCACA	CAGGAAAATA	TTAAGGCAGA	AGAGAGTTTC	CTCCCCACAC	CACACCGTAT
133261	CCCACAGGCA	CTGCGGATGT	GCATATGCAA	GAGGGGTTGA	TCCTAAGAAT	TTAGAGTCAC
133321	AGAGGAGGAG	GCACCAAGCA	GACTGTGGAG	AAAGTCATGA	CCAGAAAGGG	ACAGAATGTA
133381	AAGCTTCAGC	TGATTATCTG	GCCTCAGGGA	TTCCAGAGGA	ACTGGTCCCA	ATGGTCTCCT
133441	GGTGATGTAG	GTTCTTAGGT	TTCTTTTACA	GGGGTTTTCT	GGGAGATCGT	TGACCCAGTT
133501	AGCATTCAAG	CAACTTCCAC	CCTGCACTTT	TATTCTTTCC	CCTTCACCTG	CTTAGGTTTT
133561	ATCTGTCCAG	GAAATAATAA	TAAAATTATT	GAGCCCTGGA	CATGTACCTG	TAAAGCTCCT
133621	TAAAGATGAT	GCCTTCTAAC	TCCTCATTTA	ACAGATACAA	AAACATTACA	ATAAAATGAC
133681	TCATGCAAGA	CACCCAGGTA	GTTTATAGCA	GCTAATAAAA	ACAGAATAAC	TATAAAATAT
133741	GGTAAGTTTA	TAAAAGTTAC	ATTGAGTATA	CTTTATAAGA	ACTGCTTATT	GAGTTTGCTT
133801	AATAACCACA	CAGCACAATA	ATAATATGTA	TATATTTTTA	AATATGTGTA	AATATGTGTA
133861	ACACAACTT	GTAGAAGGTA	TATCTGAGTA	CAACCCTATT	CTGTTTGGTT	ACCTTTTCTA
133921	GTTTCATTAT	TAAGTGGCAT	AGCTACCTAA	GGACTTATGC	TTATAAATGT	TACTCAAAAA
133981	AATACAGAGG	ACATATGTGG	ATAGATAATG	GAAGAGATAA	GATAGGTAGG	TTGAAGGGTT
134041	GGGCTGCCCC	TCCACACCTG	TGGTTGTTTC	TCGTTAGGTG	GAATGAGAGA	CTTGGAAGAA
134101	AAAGAGACAC	AGAGACAAAG	TATAGAGAAA	GAAAAAAGG	GGTCCAGGGG	ACCGGTGTTT
134161	AGCATACGGA	GGATCCCACC	GGCCTCTGAG	TTCCCTTAGT	ATTTATTGAT	CATTATTGGG
134221	TGTTTTCTCG	AGAGGGGGAT	GTGGCAGGGT	CAAAGGATAA	TAGTGGAGAG	AAGGTCAGCA
134281	GGTAAACACG	TGAACAAAGG	TCTCTGCATC	ATAAACAAGG	TAAAGAATTA	AGTGCTGTGC
134341	TTTAGATATG	CATACACATA	AACATCTCAA	TGACTTGAAG	AGCAGTATTG	CTGCCAGCAT
134401	GTCCACCTC	CAGCCCTAAG	GCAGTTTTCC	CCTATCTCAG	TAGATGGAAT	ATACAATCGG
134461	GTTTTTACACT	GAGACATTCC	ATTGCCCAGG	GACGAGCAGG	AGACAGATGC	CTTCCTCTTG
134521	TCTCAACTGC	AAAGAGGCGT	TCCTTCCTCT	TTTACTAATC	CTCCTCAGCA	CAGACCCTTT
134581	ACGGGTGTCG	GGCTGGGGGA	CGGTCAGGTC	TTTCCCTTCC	CACGAGGCCA	CATTTTCAGAC
134641	TATCACATGG	GGAGAAACCT	TGGACAATAC	CTGGCTTTCC	TAGGCAGAGG	TCCCTGTGGC
134701	CTTCCTCAGT	GTTTTGTGTC	CCTGAGTACT	TGAGATTAGG	GAGTGGAGAT	GACTCTTAAC
134761	GAGCATGCTG	CCTTCAAGCA	TTTCTTTAAC	AAAGCACATC	TTGCACAGCC	CTTAATCCAT
134821	TTAACCCCTGA	GTTGACACAG	CATATGTCTC	AGGGAGCACA	GGGTTGGGGC	TAGGGTTAGA
134881	TTAACAGCAT	CTCAAGGCAG	AAGAATTTTT	CTTAGTACAG	AACAAAATGG	AGTCTCCTAT
134941	GTCTACTTCT	TTCTACACAG	ACACAGTAAC	AATGTGATCT	CTCTCTCTTT	TCCCCACAGG
135001	AGGTGATGGC	CGGAAGAACA	TGGCAGAGGG	CAAAACAAAA	CAGCATTGGG	AACAAGCTCT
135061	GTTTAAAAGG	AGACTTGTGA	ACAGCAAAGA	GTAAGAAAGG	TTCTCTTACA	ACTGAAGCCC
135121	ATGGAAGACA	AATGTGTACT	GCGTGAGTTT	TAAGGCAATA	GGAGTAGTGG	GACCTAGGGC
135181	ACACCAGAGA	GCATATTAAC	TCTCAAACCT	TTAAAAACAT	TATATCTGCT	GGACACAGTG
135241	GCTCACACCT	TAATCCTACA	ACTTTGGGAG	GCCGAGGCCG	GCGGGTGTAG	CTTGAGCCCA
135301	GGAGTTCGAG	ACCAACCTGG	GCAACATGGC	AAAATCCCGT	CCCTACAAAA	CAAACAAACA
135361	AAAAACAAAA	TTAGCCAGGC	ACGGTGATGC	GTACCTGTGG	TCCCAGCTAC	TCAGAGGCTG
135421	AGGTGGGAGG	ATCGCTTGAG	CCCCGGGAGG	TTAAGGCTGC	AGTGAGCCAT	GATAATGCCA
135481	CTGCATCTCA	GCCTGGGCAA	CAGAGGGAGA	ACCTGTCTCA	AAACAAAAAC	AAAAACACAC
135541	CATACCCAAC	CACAATGCAT	CTGTCTTAAG	TACCAGTACC	ACACCCCTCT	ACTCACTACT
135601	AAATAGGTGA	GTTCCCAATC	CCTGGTAGCA	GGTTTAAGCA	TGTTATATTA	AAGGTCTTAG
135661	GCTAGTGACT	CATCACTCA	TTAAACAAAT	ACTTATTGTG	CATCTACTAT	AAACTAAGTA
135721	CTGTGCTAGG	TACAAAAGCA	AATAATCTAA	GCTCTATAAA	CTTTACTTTT	TTCATCAACA
135781	AAATGGAGAT	GTTTTAGGCA	TCTACTCATC	ATTCTGAGCT	CCATCTTTTG	TGACTGTAGT
135841	TGGCAGAGCT	TTTTATCACT	TTCTCTAAAT	AGCTCTACCA	GTCCCTGGTG	GATGCTGGCA
135901	TGCCCCAAGG	ATCCATCCTG	ATGGCCCTGT	CTGCTTACCT	TACCTGCCTG	CCTTTGCAGC
135961	ACCGCTCTGC	TCTTCTGCAG	GACTTCCCTT	ATCCTTTGGG	GTCTTGCTGC	TCTTAGGCTG
136021	CTCTGCTTGT	TTTGATCTGC	TTTGCATCAC	ATGTATGTAA	AGGTCCTTTC	CTTATTTACC

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136081 CATGACCAAG GTATTATGAG ATTCTGGAAT TTCCCCAAAC CACATTGATT GCTGGGAGAA
136141 TAGAAGAAGT GGATTACAAG TGGAACCTTAG AAGGGGAGTA TTCGAGAAGA CGTCTCTGCA
136201 AATCCATTGA GAGAGACCTT TCTCCAGTGG TGA CTCAAAG ATGCAGCTCC TTTCATCCTG
136261 TGGCTTGGCC ATCTTCAGCA CATGGCTCCC AAGGATGTCC TCAGGATGGT CTCTAATCCA
136321 AGGAGCCTGA AGAGAAAAAA AGGCATGGAG TATTGTGAGT GGTAGGTGGT TATGGACCAG
136381 TTATGGAAGA ATACACATCA CTTTTGCCCA CCTTCTACTA ACCAGAACTC ACACAGCCAT
136441 AGACACTGAC AAGTAGGACT TAACAAGAAT CTAATTTTGA GTCTAGGAAT ACGACTGTAG
136501 CAAATATTTA ACAGCTTCAA ACACAGGTGC ATTGCTATCA CTATGCTTGG CCCAGGCCTG
136561 TCTCCCTTTC CTGCCATGTC ACAGGGGCCA GCATTTATGT CTAGATTGGG TTGGTTGGGA
136621 TATTAAGACA ATAATGAACC AATACAACAT CTTGAGCATA AAACCAACTG ATACAATGAT
136681 GTACAAGTCA GATGATTCTG ATGATTATGA ATTATGTCAA TAAAAGAAAT GTGATAACTA
136741 AGGTAATTTT TGTTTTGGCA AATTTTGTGTT TGTTCATGAC AGGATGAAAT CCTGTCATTT
136801 TAGCAACAT GGATGGAATT GCAGGATACT ACATTAAGTG AAATAAGCCA GAAACAGAAA
136861 GTTAAACACC ACATGTTCTC ACTTATATGC AGAAGCTAGC TAACTAAGTA AATAAGTTTA
136921 TCTCATTGAA GTAAAAAGTA CAACAGAGAT TACTAGAGGC TGGGAATGGT AGGGGAAAGA
136981 GATGATAAAG AGAGATTTCGT TAAAATAAGT TACAGCTAGA TAAGAGCAAT CAGTTCTAGT
137041 GTTCTATTTG TACTACAGAA TGGCAATAGT TAACAGTAAT AAATAATTTT AAAGAGCTAG
137101 AAAAGAGGAC ATTGAATGTT TCCAACACAA AGAAATGAGA AATGCTTGAA ATAATGGATA
137161 TTCTAATTAA TTACCCTGAT CTGATCACTA TACACAGTAT GTATAAAAAAT AACACTATGG
137221 GCTGGGCGCA GTGGCTCACA CCTGTAATCC CAGCACTTTG GGAGGCCAAG GTAAGCAGAT
137281 CACTTGAGGT CAGGAGTTAG AGACCAGTCT GGCCAACATA GTGAACTCC ATCCCTACTA
137341 AAAATACAAA AATCAGCCAG GCGTGGTGGC ATGTGCCTGT AATCCCAGCT ACTCAGGAGG
137401 CTGAGGCAAG AGAATTGCTT GAACCCAGGA GCGGAGGTT GCAGTGAGCC GAAATCGCGC
137461 CACTGCACTC CAGCCTGGGT AACAGAGCAA GGCTCTGTTT CAAAAATAAA TAAATACATA
137521 AATAAATATT TTTTAAAAAA AGAACATCAC TATGCACCCC ATATATACAT ATAATTATTA
137581 TGTCAATTTG AAACATAATT TTGAAAAATG AAAAAATGAA ACACAAATAT GAATCAATCC
137641 TCTCCAAGTT GATATACTTA AAAGGAAAAA AGTCCGAGGG CTTAAACTAT TCAATCAAAA
137701 TTTTATTAAA ATGCTATAGT AATCTGAAA GTATTTCAGA ATGAATTGGT ATAAGGTTAG
137761 ACACAAAGAT CAGTGAAACA AAACAGAGAA CCCAGAAATA GATTACACA TCTATGGACA
137821 ACTGGTTTGT ACAAAGGTGT CAAGGCTATT TAATAAGTAA AAAAATCGTC TTTTCAGTAA
137881 ATGTTTCTTG AACAAGTAGA CATCCGCTGT GGGGAGAGG AGCAGGAGCC TTACCTCAAA
137941 CTTTATGCAA AAATTAATCT AATGTAAGC ATAGACTTAA ATGTAAAAGC TAAAAATATA
138001 AAACCTCTTT AAAAAATAGG AGAAATCAT CAACACCCCTA GGATTAGCAA AGATTTCTTT
138061 AAAACAAAAC AACAGGTTTA TAGTTTATAA AACATAAATA ACAAATGAT AAATTTCTATC
138121 AAAAGTGAAA ATTTGCTTTT CAAAAACAT TATAAAATGA AAAGCAGGAG GCTGAGGCAT
138181 GAGAACTACT GGAACCCGGG AGCTACAGGT TGCAGTGAGC CAAGATGGTG CCACTGCACT
138241 CCAGCCTGGG TGACAAAGTG AGACTCTTCC TAAAAAATAA ATAAATAAAT AAATAAATAG
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138481 CATGAAAAGA TTTTAAACAT CATTAGTTAC TAGGGAAATG CAAGTCAAAA CCACAATGAG
138541 ATACTTCACA TTCAACAGAA TAGCTAATGT TAAAAGGACT GACAATCCCC AGGGTGAGCA
138601 AGGGTGTGGA GGAACTACT CTCATATATT GTGAATGTAA GAGGACAATG TTACAATCTAC
138661 TTTGAAAAAA GTTTGGCTGT TTCTAACATA AAATTAACA CTTATACAGC CCAGCAATAT
138721 TTCTGGGTCA TTTCTCCAG ATAAATGAAC ACATGTCCAT ACTATGACAT GTACAAATGT
138781 TCATACTGGC TTTGTTTCAC AATGCTATAA ACTGGAAACA ACCCAGGTGT CCATCAACAG
138841 GTGAATGGGT AAATAAATTG TAATATATCG GCCAGACGCA GTGGTTCATG CCTGTAATCC
138901 CAGAACTTTG GGAGGCCAAG ATGTACGGAT CACCTGAGAT CAGGAGTTTG AGACCAGCCC
138961 ATCCAACATG GTGAAACCCC ATCTCTACTA AAAAATTAGC TGGGCATGGT CACGGGCGCC
139021 TGTAATCCCA GCTACTCGGA AGGCTGAGGC AAGAGAATCA CTGAACCGA AGAGGCGGAG
139081 GTTGCAAGTA GCCAAGACCA TGCCATTGCA CTTGAGCCTG GGCAACAAGA TGGAACTCC
139141 ATCTCAAAAA AAAAAAAAT TGCAATATAT CTATATCTTG GAATATTATA AAGCAATAAA
139201 AGGGAATAAA CTACTGATAT ATACACAAAA TGGATGAATC TCAAAAATGT GAAGGAAAAAT
139261 AAAAAATACA TATGATATAA ATTCCATTCA TATGAAATTT TAGGAATGGG AAAACTAAGC

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139321 TGTAATTATG GAAAGTACAT CAGTGGCTGC CTGGGGCCAA GAGGATGGAA GAGGCGGCAC
139381 AGGTGATACT ACAAATGGAA ACTATCTAGG TTGACGGAAG TGTCTGTAA CTTGATTACA
139441 GTAGTAAC TGTTGGGTATA TAAAACGCAT CAAATTGTAT AATTAATACA GGTGTATTTT
139501 ACTGTGTATA AATTATTCCT CAATAAAGTT GATTTTTCAT TAAATATATT ATTTGCTAAA
139561 ATGAGGAGAG ACAAATATTA TCTTAAATA GTTAAGCACA ATAAAAATAC TACAATCAAC
139621 TCATTATATA TGGAAATTAA AGGAGAAAAA TAGTGGTATG ATTAATTAAT ATAAAAAGAA
139681 AACCTTCTAA ATTTTATCTT AGCTCATAGT TGTAAGAGCT GCCATCCCTA ACCAAGGCCA
139741 CCCTTGACCC TTTCTCATGT TCCATCTTTC TGTTTGTTC ATAGTTTATG TCTCACCAAA
139801 ATCTATCAGA TAAACGTATT CATATGAAGA TTTAAATATA TTACATGTTA AGCCTTAGCG
139861 AATACTTCAA TATCTAAAGA AGGTACAAAC AAAACAAAAA TCAACACTTA GTTATAAGAG
139921 ATTACATACT CTCCAGGGAA GACCTGAAGA CTAGCCCCTT TCTGGATCCC ACTAGCCCCT
139981 CATCCCACTC CAAGCCCTCC CCTCCAATCC CATATGCACT GGGCATTTCAT ACAAATAAGA
140041 CCATCAGCTC TGGATATCTG TACTGATTGA TGCTCCTGCT AACTACCTGA ATGATTGCGA
140101 TGTAAGGACA GCACTGCCTG AATCCTATTT ATCTCTCGCT ATGCCATAGC GGCCTTCCAT
140161 GCTGATGGCG TGTTTGAGGA TCCAGAGGGG TCTTTGGTTG GCAGGATTGT TTTATTTCCC
140221 CAAGAGGAGA GCCTTGATGC AAAAATAGGT GAAGAAATCA GTACAACAAA ACAGAAAGCC
140281 TAGAACTAC TATGAACACA ATAGAGCAGA AGTAGCCTTA AGAGTTGGTG GAGAAAGGAT
140341 GGTCTATTCA ATTACCTGGG CTGAGAAACT GGCTTTCATA TGAATAAAAA ATAAAATTAT
140401 AGCTATACCC CATATCATA ACAAAGTTT CTACATCTAA CAAAGACACA GATAGAAAAT
140461 GTTTTAAAT TTTAGAAGAA AATAGTGCAG AATTTTAGTG CAGAATTTCT TAGACTAGAT
140521 GCAAAAACAA AAATGATTAA AGTGGCCAGG CACGGTGGCT TATGCCTGTA ATCTCAGCAC
140581 TCTGGGAGGC CGAGGTAGGT GGATTAGTGG AGGTCATGAT TTCGAGACCA GCCTGGACAA
140641 CATAGTGAAA CCCCATCTCT ACTAAAATAC AAAAATTGGT AGGGTGTGGT GGCTCACGCT
140701 TTTAATCCA GCTACTTGGG AGTCTGAGGC AGGAGAATCA CTTGAACCTG GGAGGCAGAG
140761 GTTGCACTGA GGGGAGATGG GCCACTGCA CTCAGCCTG AGCAACACAG CGAGACTCTG
140821 TCTCAAAAAA ATCTAAAAT AAAAAGATTA TTTTAAAAAG ACTATTTTAA ACAAAAAAAA
140881 TCGTTTAAAT GATATGACAC ACTACATCTA ATATTGGAA AAGTACTTCT TAATACTTTT
140941 AATAAAAAGA GCGCTGAGA GCATACAACC TATCCTCAGA AGAGTGTGTT ACCTCTAGGA
141001 GGGACGCAAG CGCGTCTTC CTTCATTTTA ACTGGTCATT TTCATTTATT TCAGGAACAT
141061 CTGAAGTAAA CACAGTCACA CGTTAACCTT TAAAAATCTA GGAGGTGCGT ACGCATAGTT
141121 CCATTACTTC AATTTTGTG CTTTGTGATT TTTAAATATC ACAGGGAAGC TCGGTACAGC
141181 TTCAAGSCTA GGAGGGGTGG CTCTCTCTTA AGCCCTGTCC CCGCCAGCCC CAGACCTCTC
141241 GTCCCGCCCC CATTGCCAG TCCCACCCT CACTTCCCCA TTTCCCCCT CCCGCGTCT
141301 CTTAACGCAC CTCGTTTTTC GTCCAGTGA CTCAGACCTG TAGTCTTCCA CAGGATCGG
141361 CTCCTTTCCC GGAGCTCTCG CTCTTAGAGG AAATTGAGAG AAGCATCAGC GGAGACCCAT
141421 CTGTGGCTCT CCAGAGGGCG CGGCATTGAG ACCCCAGATC CAGCTGTGAG AACGGACCCC
141481 AGGCTCACAC CAGGCCTGCG GGAGGCGGCC CACCAGAGGC GCTAGAAAAC AAGCCTCGCG
141541 GGGAGGCGCG CAGGGCGACT GCAAGCTGTA GGGGGCGCTG GCGCCCTCAC AGGCCAGGGG
141601 CAGGGCCGCG GCTGCGGGCG GGGCTCCTGC GCGGTGAGGG GCGGCCCCAG GCCAGCAGCT
141661 GCGCCCTGCG TGGGAGCCGG GGAGCATTG CTGCTCTGCT GGACCCTGAG TCTGGCGGCG
141721 GCGCGCTGCC TCTCCGCTCC CCGCCGCCA TCCCCCACT CCCGATCTCT CTGCTGCGTC
141781 TGGCCTCAGG CTGAGACCC AACAATCAT TCCCCCATG GGAACATTT ATGATATAAC
141841 TGAATTCAGT TTTATGTATA ACTGAATTAC GGATATGAGA ATCTCAATG AGGACGAATG
141901 GTTTTTACGC ACAAACATG AGACACAAAT CTGTAAGAAA TATAAGTCG TGACCACGTC
141961 CTTTCAGAAC TTTAACCTGT TTGCTGAAGT ACGTCAGTAA CAATGGCAGG GAAAGGGTAT
142021 CTTAAATTT ACCACAGCCT CAAAGAGGCC ATTTCTGTGA TCCGCTGAGG CTTGGAGTCG
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142201 TGCAGATCCA GCGGCGAGCC CAAGATTGAG TCCAGCCGCC AAGGGGTGGC TCGAGTGACT
142261 GACGGGCCTT GAACGCTCCC AGGACCCACA TCTGGAGAGG GAGGTGGGGG TGGGGTGTCTG
142321 AAGTCATTCT TGGGGCCCTT GGGGGCGGCG ATGGACCTGG GTAAGGCCAG AGAAATTTGAC
142381 ACCTCGTGAC ATCCCTGGAA GAGAAGTACG TTCAGTGTCA CTCAGAGCT GAAACCGCCT
142441 TCTGGCTGGT CCTCCTCAC CTACATACTT TTCTAATTG TCTGGAGCAG GCCGGGCATC
142501 TGTATTATCT GGTATTATTA ATATCTGTTT ATTTAAAAGC TCTCCATTAA ATTCACATAC

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142561 ACGAAAATAA AAATTAAAAA AAATTTTAAA AAAAAGAAAC AAAAGCTCTC TAATGACCAC
142621 GTCCTACACG ATAGTGAATA AATTTTTTTG TGTGGTCCCT AAAATTGAGT TCATGCCTTT
142681 TCTGAAGTAA TAGACGCCCA GAGAAGGGAT CGACTTACCC ATCATGCCAC AGAGATTAAAT
142741 TGGCCCCAGA ATTCCTTAGC AGACCGTGTA TATGAACGTC CTTTGCAATC ATATAAATTA
142801 ACTGGGAAAA CCTCATTAG TATGTTACAT GCCTAGCGTT TTGTGCCTGA ACACCTTACA
142861 AGAACCAGGG ACTATTGCCC CAATATTATA TTTCAGGAAA GGAAGGCCCA GACAAATGGT
142921 GTCACTGGTC CACTTTTACC CAGTTGGTAA ATGAAACCAG AAATTATAGC TGTACCACAG
142981 AAAGGTGAAA ACGTTTCTTT TATAATTTCA CATACAATCT TTAATGGACC CAGTGTCCAA
143041 CACATTAAAG CAAGTGCTCA GGAGTGACAT CAAGATGTAA AAAATAGTCC TGTCCTCAGG
143101 GAGTTTAGGT CTTGGAGAAA AGAGACCCAA GGAGACACAA GACAAAGGGG AAAGAGAAGG
143161 AGCGCTGAAG ACTGAGGACC CTGCCTGTGG ACTGAAGTGA GGATGGGGAC ACCCGATGCC
143221 CGGAATATGA CAGTTTGGAG GGGCCTGAAG GACTCTTCTA TTCTCTATCA GAAAAACAGA
143281 ATTACTCTCC TAACCAGAAA AGGTATTTCA ATTTATATTT TCCATCACAG CACTTTTCTG
143341 GTGATAATTT AATGTGTTTT AAAAAATGTA TCACAGTGAT GGCCTGGTGT GAAATAAATA
143401 ATAAAAATTT AAGAATTAAA AAATATAAAA ATCTTTTATA TAGACATTAG GAGTTACAAG
143461 GATAACTGTG AATTATAATT AGTAATTAAA TTGAAATACT GATTATTTTC ATTTTTATTT
143521 AATTATTTAA TAAACCTAT TTAACATTTA ATATTTATCA GTAATTAAT CTAATTGTTA
143581 ATATTTATTA TTATAAATTA TTTTAGAATT AAAAATAAGT GTAGAAGCGA GGCATGGTGG
143641 CTCAAGCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG GAGGATTGCT TGAGCCCAGT
143701 AGTTCAAGAC CAGCCTGGGC AACATGGAGA AACCTGTCT CAATACAAA AAATGAGCCA
143761 TGTGTGGTGG TGCCTGCCTG TAGTCCAGC CATTCTGGAG GCTGAGGTGG GAGGATGACT
143821 TGAGCCTAGG CAGTCAAGGC TGCAGTGAGC CTTGATCTTG CCACTGCACT CCAGTCTGGG
143881 CAACAGAGCA AGACCCTGTG TCAATATACA TATGGACAAA CTTAAAATTT AAAATGAAAG
143941 CATACTACTG ATACAGAATT GAGTAGAGAT GCAAAGCTAG TCCTATAACC AGAACAATAA
144001 AGATAAAAAG GAGAGTGGAA GAAGGTATGT CATGAATTTT ATGATAAATC GCAATTGCAA
144061 ATATCCTGTA GCAGAACAAA ACAACAAAAC TGTAAGATAA ACATATCCAA CCCTTTGGAA
144121 GGCCAAGGAG GGAGGATTGT TTGAGCCCAG AAGTTGGAGA CCAGCCTGGG CAACATAGTG
144181 AGACCCTGTA TCTAAAAAGG AAGAAAGAAA AAAAAAAAAA GGATGATAAA GTAGACAATA
144241 TTGAAAGCCA TTTTCTGCAA ATACATAGTG AATTTGATCA GTAATTTTCT TCCAACAGTG
144301 CAAAAATGAA TAGATATTAG TTGCCTGAAA TAAAAATCAA ATATCCAACA AAAAAATTG
144361 ACTATCTAAT AGTATCTAAG CTAGTAAATT TGGCCAGTTA TAAATGTCT TAAATTTTA
144421 TTTAAAAAAA GAAAACCATA TTTATAAGAA GAGGTGATAA AGAGAAATTA TTTCAGTTAT
144481 GAAGATTTTG TTAGAAAAC TATGAGAAAA AACTATTTT TGTTTTCAA AAGTGAAAGA
144541 TTAAGTTACC AAACAGTTGC TAAAGAATAC CAGATGGCTG AGCGTGGTGA CTTATGCCTG
144601 TAATCCAGT ACTTTGGAAG GCCAAGGCAG GAGGATCATT TTAGCCCTGG AGTTCCGAGC
144661 CAGCCTGGGC ACTGTAGCAA GACCCGTCTC TATTAATAAA AAAAAAAAAA AAAAAAAGA
144721 ATACAAGACC TTGCTAACAA TAGCAAAGAT CAATTAATTC AAAATTTGAA AAATCTGAAT
144781 TTATTTAGCT TTAGAGTACT CTCGTGATAT GAGATTGCCA AATTAATACT TTGGGTGCAT
144841 TTCTTTTCTC AAAGGACTTG CAAATTTACA AAGAAGTGTT GAAGAAAAGC CACACATTGG
144901 CAGGTAATGT TTGCAAAAGA CAGATCTGAT GAAGAACAAAT ATTTTATGAA TATACAAAGA
144961 ATACTTAAAA CTCAACAGTA AGAAAATAAC CTGATTTAAA GCAGGCCAAT GACCTGAACA
145021 TCTGTTTACC AAAGAAGATA CACAGATGCA AGTATGCATA TGAAAAGATG CTTGACATCA
145081 TGTCATTAGG GAACCTGCAA TTAACAACAG TAGATACCAC TGCATACCTA GTAGAATGAC
145141 CAAAATTTAG AACACTGTCA GCACCAAAGG TTGCAAAGAT ATGTAGCAAT AGTAACTTGT
145201 TCATTACTGG TGAGAATGCA AAATGTGCAA TCACTTTGGA AGACAGTTTG GTGGTTTCTT
145261 ACAAAGTAA CCATACTTTT ACCATAAGAT TCACCAATCA CACTCCTTAG TATTTATCCA
145321 AAGGAATTGA AACTTATCT CCACACAAA ACCTGCACAT AGATGTTTAT AGCAGCTTTA
145381 TTCATAATTT ATCCAAAAC TGGAAACAAG ATGTCTTTCA GTAGGTAAGT GGATAACTGT
145441 GGTACTTCTG AATAATGGAA TGTATTTAG AGTTAAAAAG AAATGCATTC ACTTTGGGAG
145501 GCCGAAGTGG GTGGATTGCT TGAGGCCAGT AGTTTGAGAC CAGCCTGGTC AACATGGGAA
145561 AACCCCAATT AGCCGGGCAT AGTGCCGTGA GCCTGTAATC CCAGCTACT GGGAGGCTGA
145621 GATATGAGAA TCGTTTGAAC CTGGGAGATG GAGGTTGCAG TGAGCCAGTG CCCTTGCACT
145681 TCAGCCTGGG CAACAGAGCA AGACTCCTCT GTCTCAAAA AAAAAAAAAA AAGAAAGAAA
145741 AGAAAAAGA AAAAGAAAAA GAAAGAAAC GATCAAGCCA TGAAACACA TGAAGGAAAC

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145801 TTAATGTAT GTTACTAAAA AGCCAACCTG AAAAGACTGC ATACTATATG ACTCCAACCTG
145861 ATGCAGGGCA AGCAAGCCAA AAATTAGGGC TTAGCCCGGG AAGAAATCAA GGGTGAAGTG
145921 GTGGTGTAG CAACTTTTAC TGAAGCAGCA GTGTACAACA GCAGAACAGG TACTGCTCCT
145981 TGCTGAGCAG GGCTAACCCA TAAGTAATGT GCCCAGAGTA GCAGCTCAGG GGCAGTTCTG
146041 CAGTAATATA CCTGCTTTTA GTTAAGTGCA TGTTAAGGGG GATTATGCAG AAATTTCTAG
146101 AAAAAGAGTG GTAACCTCGG AGTAGGTACA GAGGAAAGAA GTCGATAATG TCCTGTTGTT
146161 GCCATGGCAA CGAAAACTG ACATGGCGCT GGTGGGCGTG TCTTATGGAG AGGTGCTTTA
146221 ACCTCGTCCC TGTTTCGGCT AGTCTTCAAT CTGGTCCGGA GTAAAGTCCC TGCCTCCGGA
146281 GTTCACTCCT GCTTCCTGCT TCACAACCTG ATGACACTCT AGAAAAGACA GTAACATATG
146341 ACACAGTCAA AAGATTAGTT GATAGAAATT GGGTGACAGG AAGTGTGAA AAGGCAGAAC
146401 ACAGGATTTT TAGGGCAGTG AAAGTCTGT GATACTATAA TGGTGAATAC ATGACATTAT
146461 ACATTTGTCA AAACCATAG AAAGCACAA ACCAAGAATA AACCTAATG TAAATTACAG
146521 ACTTTCGTTG ATAATGACGT GTCATGTAA GTTCAATTGT AATAAATGTA CTACTGTGGT
146581 GCTGGATGTC TATGGTGGGG GGACATTTT GCTTCAATAG TTACAGTTGA AGTAAATGTT
146641 TGTGTTTCCC ACAATGCATA TGTAGAACT CTCACATTCA ATGTGATGGT CTTTGGAGGT
146701 GGGCTCTTTG GGTGATAGTT AGGTTTAGTT GAGATCCTAG CAGATCGAGT CTTTCATGATG
146761 GGCATGATGG GACTGGTCCC TTATAAGAAA AGACCAGAAA GCTAGCTCTC TCTTTGCCAT
146821 GTGAAGACAT AGCAGGAAGG TAGCCATCTG CAAGCTAGGA AAGGGCCTTC ACAAAGAATC
146881 AACTCAGACC TCAGAACAGT GAGAGATAAA TTGTCGTGT TTAAGTCACT CAGGCTGTGG
146941 TATTTTGTGT CAGCAGCCCA ACCTAAGACT GTTAAATGGA TTAGAAATTT CTTTTTGGGG
147001 ATGGTGTGTG GCGGGCGGGG GCGGGGAGT ACCTTTGTTA AGCTTTTATA TCAATGAGTT
147061 TGTTAGGCTTT TCTTTTGTGG TCATTGACTA GGACAGTTTA AATAGTATGA GTGTGAAGGA
147121 GATTGTGGT CATCTATTCG ATGTCCTTTC TCTGTTTTTT AATATGAGAA CTCCTGATTT
147181 TCAGCCAACCT ACCCTGAAA AAAAGCTAAT CTTTCTGACT TCTTAAGTGT GGCCATGTAC
147241 TAAATCTGG CTAATGCAAG GCAAGCAAAA GGTTTTATGA TAGGTTTTAG GACACTAGAG
147301 TAAAAGAGAG CTGTTGCACA CATGCTCTT ACCCTACTTT TGTGTCCTTT TTTCCATCCT
147361 ACAACTTGGG TTGTGAGTAT GATGGCTGGA ACTTTAGTGG CTCTCTTGGG TCCCAGGGGT
147421 AATTGAGGGG TGGCTGGAAG GAATCTGTGA TTTTCTGGAG TTTCCATACA CAAACAAGAC
147481 CTGGATTTTC TGGGCTTCCC AGACTTCCAC ATCTAGACTT GCTTTAATG GGAGATAAAT
147541 AAACCTGTTT CAGCCACTGT CATTTTGGGC TATTTTATAG AACTTAATCT AATCTTCAAG
147601 GGTACATGAA TTGCTTTTCC TTAAAAAAAA AATCAGCCAT AAAATCATCT TCTTTTTTCT
147661 TTTGTTCCCC ACATTATTTA GTTGGAGCTC TGTAACCTTT TTTTTTTTTT TTTTGGAGAC
147721 AAGGTCTTGC TCTGTCACTT AGGCTGGAAT TCAGTGGCAT GACCATGGCT CACTGCAGCC
147781 TTGCCCTCCT AGGCTCAAGC AATCCTCGTC TCAGCCTCCT GAGTAGCTGA AACTAAGGCA
147841 CATGCCACCA TGCCAGCTA ATTTCTTTTC TTTTAGAGAT GGGAGCCTTG CCCAGGCTAG
147901 TCTCAAACCTC CTAGCCTCAA GTGATCCTCC CATCTCAGCC TCCCAAAGTG ACAGGATTAC
147961 AGGTGTGAGC CACCATGCCT GGCTGCTCTG TAAGTGTCTG AATTTCAATT TGTATTTATC
148021 AGTCTGTTTA GATTTCTTTT CCCTTCTTGG GTCAGTTAGG CCATTGGTTT CTTTTTAAAG
148081 GTTTTCAAAT TTATTGTCAT CTAATCTTTC AAATTACTCT CAAAATTATT CCAGTATATA
148141 TTCTTTTGTT CCTATTTTCT TCTGTATTCT TTATTAAAAT AGCTAATGAT TTATCTAGCA
148201 GGACTTATAT TCTTTCCATA ACTTCTCTGC ACCCCAATTA ATCTCCAATT TTATATTTCT
148261 TCTGGCCTTC CTTATAGTTT CCACAGTTT ATTTTATTCA TTTTTTAAAA CTTTTATTTA
148321 ATTGTTTATT TTATTATCAT TCTTTCTTAT TCAGCAATCT AAGTGCTTAG GGATATAGAA
148381 TTTCTCTTAA GCAGCATATG CTAGGCTTTA ACAATGTTAG GGAGGCCCTC CTTTTCTGGG
148441 GAAGACCACA CTTACATTA CACAGGACTG TGGGATGCCA AGAGGTAGAG AAGAGCTTAT
148501 GAATATCCAG ATTACATCTT CACTGATCCT GCACAAAGGT GGGGTTCCCTC GGTACCAC
148561 TGGGTCCTAT TACCCAAGTC TGGGTCAGCA TACCGAGACT ACGGGTATAT AGAACAAGTG
148621 CAACTGGCGA TAATCCTTCT GTTGGGGAGA AAAATCTTTT TTTTCTATTC ATCTTAGGTT
148681 CTCCATCTGT GGCCCTATCA AGTAGACTAA CAAAAGACAG ATTGACAAGA CAGAAACAAA
148741 GCATGTGCAT TGTACAAACA CAGGGGAGTA CTGAGATGAA TACTCAAAG AGGATTTAGA
148801 ACTTGGGCTT ATATAGCATT TTAAGAAAAG AATACATTTT TTAAGTGACA AGGAAGACGA
148861 AAAGGACTTT GAGTTTCTAG TGCAGTAAAT TGTGGGAAGG CAACTTTTTC TTTCCCTTTT
148921 TTTTTTTTTT TTTTTAAAAA AAAAGACTTC TCTGGTGCTA TGTCCAGGCT GATAAGAGTC
148981 TAAAGTCTCT GGTGACTAAC TTTTGTCTT CCCCAGTAA GAAGACACCT TCACAATTTT

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149041 ATATCCTGCT TTTAGGCAAA TAGGGAGAGG GCAGAGGTGT TTGTTTGTGT TTAATCTATT
149101 TTTTCTCTCA ATTGTCTTCA ACTCAAAATA CTTCTTATGC CAAAGATGGC ATATTCTGCT
149161 ACCCTTCACT TACTACTTAC AACCAGCCT CTATCATCAT AATTAGAACT TCTGACCCCTG
149221 GGGAAACATGG GCAATAGTTT GAACTCTTTT ATATCTCCCT TAGGCAGAGA TGGAGGCCCA
149281 GCCATGCCTC TGACATCTAG ACACAACTGT TGCTTCATTT CTCCTATTCT CAGAGGTGAT
149341 GTTGTAGGAC TTCAACAAAT ATCAGTAAAC ATTAATTTT TTTTTCCTTG AGGCACAGCA
149401 TGATCTTGGC TTACTGCAGC TGCTGCAGGC TCAAGCAATT CTCCTGCCTT GGCTCACGA
149461 GTAGCTGGGT TACAGGCCCC TACCACCATG CCCGGCTAAT TTTTGTATTT TTAGTAGAGA
149521 CAGGGTTTCA CCATGTTGGC CAGGCTGGTG TTGAACTCCT GACCTCAAGT GATCCACCTG
149581 CCTCAGCCTC ACATAGTTCT GGGATTACAG GCGTGAGCCA CCATGCCTGG CCATCAATTT
149641 TTATGTCAAC TCTAAATTAT AACATTAGC AATTTGTGA CTTTTTATGG TCATCAATTA
149701 TGTGTTTTAT GTTTTAGTTG TAGTCTGTG ATTACTCACT CGGGTATGGT AATTTGGTCT
149761 TTTTCAAAAT GAAGTTAAGG TCTATTGCT CTTCTCTGAA TCATAATAAG AACTGCCAAC
149821 AGCCATTTCA GCAATAACTA TTTACTGAGA TTTTAAATA TTTCAAGGTA ATTGGTCTTA
149881 GCAGACTGGA AAATACCAA TTCTTTTCCA GAACTGAATC CCCCATCAA GTTCAATTTT
149941 ACTCATAATT CCCTTTTCAT TTGAAGCATC TCATTGTAAG CCAGTCTTAA CCCTTCTCTC
150001 ACACTTTGCT TGGCTGTTTC TCAGGTAGAA CTCAGTAAGT CTGGTAGCCT CCAGGACTGC
150061 CGCTTAGATT ATTAAACAAC ATGTCAGTGG TTGGAAGAGT CAATGTTATT TTGATTTTTC
150121 TGTTTTGTTT TGTTTTAAAT GCAGTTGGCG GATAATTGCA GCTTCTTTT ATTCCCTACA
150181 TGAGTCAAAA TGGCAGCAAA CAAACTAGGA GAACGCAGAC CTTCTGACTT GTGGGTACCC
150241 CTAATCATCA CCTGAAGACC CTTGGAATC AAAGCCCTGA CCCATTAAAG ACGGATGGAG
150301 ACAGCAACAT ACGATCATCA CTATTATCTT GCTTTGCCCC AGTCCAGGTT AACCATCTGT
150361 GGTATTTTTA GTTGCTAAGT CCATATATTC AACATAAATC AATTATATAT CCACTAAAT
150421 CTCAGCACTA GTCTAACTAC TAAGGAAATG ACAGCGAAGA AAACAGACCA AACGTCTGCC
150481 CTTATGGGAT TTATATTATT TTCTCTGTGC TGGTTAAACC AAGGAGCTTC TGCTCTTTTC
150541 CTTAGTCACC TGGGGGAGGC AGAAACAAAG GAGAATATTG ATAAACCTGG AAATAGGGCC
150601 GGAGAGTATC AGAGAAGGAA GCCTTCGGGA AAGTAAAGAT GTGGCAGCCA GTATTCCTGT
150661 TATAAAGGA TACAACTCCG GCCTCATAGT CCAGAAAAAT TCCCACAAGC AGGGCTGTCT
150721 CATGCAGATG AAGGGAAGTT GGGGGAGAAG TAAGTGCTAC ATAGCCTTTC TTTTGGCACA
150781 GCCTGAGGGT CCAGAATCCA GACTGAGGCT CTTGCTTCAT GCCAGTGCCC CTCTGCACAT
150841 TTTCCATACA AACTCCTAAA TCCCATCCGG TTCCTTCGCC AACATCCACT TCAAAGTAAC
150901 GTCTTCCTGA GGTGAAGCCT TCACAACCCA AGACACAGGG GAAGGCAGTA AATCTCCTGG
150961 AAGATGTGTC CTGATTCTCC TGGGTGTATC CACGAGTCAC TTGTCTCCGA TCCTCAGAGA
151021 GAATTAGTTC GTGATGAGCT GTATCTGGAT CCAGAGTCAC ACTAATGCA AAACAAAACA
151081 AAACAAACAA AAATAATTTT GTTGCTGTGA AGAACACAGG TTATTTTATT TTATTTTATT
151141 TTGAGATGGA GTGTGCTGT CACCCAGGCT GGAGTGCACT GGCACTATCT CAACTCACTG
151201 CAACCTCCAC CTCCTGGATT CAGGCAATTC TCCTGCCTCA GCCTCCGGAG TAACTCCGAC
151261 TACAGGTGCG CACCACCACA AGTGGCTAAT TTTTTTAAAT TTTCTGTAGA GATGGGGTTT
151321 CGCCATGTTG GCCAGGCTGG TCTCAAATC CTGACCTGAA GTGTTCACCC CACCTCGGCC
151381 TCCCAAAGTG CTGGATTACA CAGGTGTGAG CCACCATGCC CAGCCACAAG TTATTTTCAA
151441 TAAAACCAGC CTGTGTTCAA ACCCAACTAT TGTTTCTTAT AACTGGGTG AGCTTAGGCA
151501 AATCATTTAA CTTTCTGAGC CTCAGTTTGT TAACTATAAA GTGGAAATTA CCGTATTGTG
151561 TGCAGAGAAT GGTGGGTAGG ATTGAATAAG CTTATGTTT CTTAATGCTT GGTAATAATC
151621 CTGGTACATG GTAACCACCT AATAAGTGGT AGTTGTTGGG GTGATCAGGC CCAACACCAG
151681 GCCGTGGGGG CTACAAAGTC CGGCGGGGTC AAAGGAATGA GAAAAGACAA GTTAAGAGTG
151741 CATAAAGTGG GTCCAGGGTG CCAGCACTAG ATTGGAGGCT GCAAAGGCCC TAAGCTCTGG
151801 GAGCCACAC TATTTATTGG TGATCAACAA AAGAAGCAGG TGGTGAGGAC GTGAGGGTAA
151861 ACAGGTGAGG GCATGAGGAC ATGGGGGTAG AAAGGTAGTG GTGCATTAAG CGTAGCTGTG
151921 ACAGTTTATG ATTTTCTTTG ACACATGTAG AATATACTCT GCTGCTTGAG ATAGTAGAGG
151981 ACACGTTTAT GAGTGAAAAG CAAGGAACCA ACAAGTCTGT GCACTTTCCA GAGGCTATGA
152041 GGGGTTTTAT GCCCTGAGCC CTGGGTCCA TCCAAGCCAC AAGGGGTTTT ATGCCCTAGG
152101 CTTAGATTTG TGGTGCGGCA GGGCAGCCTT CCACCATTTG GCACAGAGCT TGGTGTCCA
152161 AAGGCCACGA GGGGTTTTGG ACCCTGGACC CCGGACATCT TCCAAGACTC TTTTACATTA
152221 TGACAGACAA GCCAGTCTCT CTTAGCTCT TCTAACACA TGTAGTAATA ATGATATCAT

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152281 CAACATCATC TTCGTCTTAA TTATTCAAGG ATGCCAAGGT ACAGAACTAA CCTGTTAATA
152341 TGGTTACCAT CCTGTCCAAA GTTCTTCTCC CATGCAGGAC TTCCAGGAAT CATGAGACAG
152401 TTGAGCAGAA AGATACCTTT TCCCTTCTCT ACTGAATAAC CACCAACATT GAGAATCAGA
152461 GAGGGAAAAT GACTCAGCTA ATGCTTAGC TTGTTATTGG AAGACCCAGG TCTCATGACA
152521 CATGCCTAGT CCCATGACTT TTAATTGTAA GCTCTTCTCT TTCCCCTCAG ATAATGTTCC
152581 ATAAGCATTG GTATGAGATA ATAATACACT GAGGACCAAT ATACATGAAA AATATCAGAC
152641 TAGAATCAAA CAAGACAGAA AAAAGATCTG ATAACCTAAA GTGAGATACT GAACAGTATG
152701 CAGTTTAAA AATAAAAAAT GGTAAATAGGA TGTCTAACA AGAGAGTTAA GAAACCACTG
152761 TGCTACTGAG TTAATGTTG ATCAGTTGGT CTGTGACAA TAAGGAATTC AAGTATTGAG
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152881 TGTCTTGCTC TGTGCCCAGG AAGGCTGACA TGGACAGATT AACCAGGCTT TCCGCCCTCT
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153001 GGGAGTATTC AGTACCCAG TCCCACGCTA TGATTTGGAG GGTCTGCATT CCTCTGCCCTC
153061 TGGGCACACT CTAGTATAGT TACAGCTCCC TACACCTGCC ACTTGAGGCC CAGAGGAGGT
153121 GATGGCTCTC TAACTGTTCC TAGTCTGGG TGCTTCTGT TCCTTGTTGA TTTCCCAACT
153181 CCTCACCTTT GTAAATACCC TCCTTTTTCA AACTCTATTG AGTTAGCTTT TATCAGCCTG
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153361 TTTTAAATTT CCACCTATCT ATTGGTGTGA CACATCAACA AAAACATATA GAAAGATTGG
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153481 GTCAGAGCAT TATTAAGAAT GGAAGAAGGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC
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153601 CCCAACATGG CAAAACCCTG GCTCTACCAA AAATACAACA ATTAGCTGGG CATTGTGGCA
153661 CATGCCTGTA ATCCCAGCTA CTGGGAGGC TGAAGCACA GAATCACTTG AACCGGGAG
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153841 CAATTTTAAA CATAATGTA CTACATTATT AGTGAATTCA TGTTTAGAAT TGTGTTAATA
153901 TACAAAGCAA AAATTGTAGA ATTATAGGAG AAATGGACAA ATCTACAATC ATCATGGGAT
153961 GTTTTAACAT TCTTCTTTCC ATAATTGATA GATCAGGCAG ACCAAAAGAA AGAAATAAGG
154021 GAAGATACGG AAGGTCTGAA CAATCTAAGA AGCGCAATCT CATAGTCAAT ACATAAAGCT
154081 CAGCAATTGT TTAATAATAG TAAGCAGAGA ATATGCAGTT TTCTCAGGTA TAGATGGAAC
154141 ATGCACTAAC TGAGTAAATA CTAGGCAGAA AACAGTCTGA ACAAGTTTCA ATAAATCTGT
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154261 ACTAAAAAGA TTCTAAATAT TAGGAAATGT AAACCTACTA TAAGTCATTA GAAGATGTAT
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154381 TTAAGGAAAA TTTGTAGGCT TTAATGCTT ATCTTAGAAA AATTAAAAAG CTGAACATTA
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154681 AAACTTTTTA AATATTACAG AACTTTTATA TAAATCTTAT GCTACTAATA AAATTGAAAG
154741 TACTGATAAA ATTATTACTT CCTAGAAAAA ATATTCTGTA GTAAACTCA CTCAAAAAAC
154801 AAATAAAGCA TGGGCAGACC TAACATTAAA GAAATGAAAT CACTACTTTA AATTTTACCG
154861 ACAGATAATA AAACGTGCAT CTTTATCAAG CAAAATGGA ACTTGTCAGT TTTATAGGAA
154921 ATTTAGAAGT CAAGGCATGA GTAATGCCAA TCTCATACCA AATCCTACAA AGAATAGAAA
154981 ATTTAGGCTC CCGCTTATAG ACATAGATAT AGAACTCCTG CACAAAATAA TATAAATAAC
155041 AAACCAAATT TTATATTTGC AACTATACAT ATTATATGTG TATGTATTAT ATATGTTAAC
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155161 TTTTACAATA TATAAATGAA AACCCAATCT TTAATATATT CATCTAGATT GTCATATATG
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155281 TGCCTGTAAT CCCAGCACGT TGGGAGGCTG AGGCGGGTCA ATCACTTGAG TCCAAGAGTT
155341 TGAGACCAGC CTGGTCAATA TGGCCAAATT CCATCTCTAC AAAAAATATG AAAAAATTATC
155401 CAGGCATTGT GGTGCACACC AATAGTCCCA GCTACTCGGG AAGCTGAGGT GAGAGGATCA
155461 CTTGAGCCTG GGAGGTGGAG ATTGCAGTGA GTCGAGATTG CGCCAGTGCA CTCCAGCCTG

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155521 GGTGGCAAAG GGAGACCCTG TCTCAAAAAA AAATTAAAAA ATTAGCCAGG TATGGTGGCC
155581 TGTTCCTGTA GTCCAGCAA CTGGGAGGC TGAGGTGAGA AGATCACTTT AGCTCAGGTG
155641 GTGGAGCCAT GATCGCACCA CTGTACCACT CGGCTTGGGC AACAGAGTGA GAGCCTGTCT
155701 CGAAAAACA AATATATACA CACAGTAATC AATATATATA TTATATGTAC CAATCAATGC
155761 TTCACTTTTA TATATAATAT AGATTACATC TTATTAGATA TATAGTATTC CTTCTCCATA
155821 GATAGATAGA TACAGATATA GACATAGTAT CCTCTATCCA TATTAGAGAG AGGATACTAT
155881 ATATATCTAT AGCATATAGA GATGCTGTCT CAAAAAAATT TAAACATCAG CCAGATGTGG
155941 TGGCCCATGC CTGTAGTCCC AGCTACTGGG GAGGCTGAAA TGAGAGGATT GCCATTGATC
156001 CTCTCATTGG TTGAGCCATA ATCGCACTAC TGCACCACTC AGCCTGGGAG ACAGAGGGAG
156061 ACCTGAGGTG GAAGGATATA GATATAGATA TATAAATAAA TATGTATAGA GAGAATATAA
156121 TATATGTGTG TATGTGTATA TATATATATT ATGAAGACAC TGGGAGAGAA TACTATATAT
156181 ATATGTGTGT GTGTATATAT ATATTATGAA GACACTGGTG GGATGGTTTC ATTACCAATT
156241 GGACCAAGAG TCCAGGTATG GAGCCAACAT GCAATGTTGT TGTGACTGA GCTGGCAGAG
156301 CACTGGTCAT AGTTACGGGA AAAGAAGGTC TCCAATGAGA CATACTTAAC AAAATATATG
156361 AACTTGCCAT ATACGTGGAG AGTTCTGGTG TGTATATAGC CTTCTCTCAC CAACCTAGCA
156421 ATTGTCTTCA TCATCATTAT AATGCTATCA GAGCAAAGAT GACAGCTAAA TTTTTTGTGTC
156481 CCTTCTTCT TCTTCTCTT CCTTCCCCTC CCCACCTCT TTCTCTTCCT CCTCCTCCTT
156541 CATCTCTCTT CTTTTTTTTT TTGAGATGGA GTCTTACTCT GTCGCTCAAG CTGGAGTGCA
156601 GTGGCACAAT CTCAGCTCAC TGCAACCTCT GCCTTCTGGG TTCAAGCAAT TCTGCCTAAG
156661 CCTCCAGAGT AGCTAGGACT GCAAGTGCAC ACCACCACAC CTGGCTAATT TTGTATTTT
156721 TAGTAGAGAT AGGGTTTCAC AATGCTGGCC AGGCTGGTCT CAAACTCCTG CCCTCAAGTG
156781 ATCCTCCTGC CTCGGCCTCC CAATGTGCTG GGATTACAGG CGTAAGCCAC TGTACCCGGC
156841 CTCCTCCTTT AATAGACAGG GTCTAGCTCT GTTGCCAGG CTGGGTACAG TGGCGTGATC
156901 ATAGCTTACT GCAGCCTCGA ACTCCTGGGC TCAGGAGATC CTCCTGCCCT AGTCTCCCCA
156961 GTAGCTGGAA CTACAGGCAT AGCACACGGG GCTAATAAAA TTAATTAGGT GATAAAATTC
157021 ACTGCCCCT GATGACTAAG CTCTTTGGAC ATAAAAGACA CAGACCTTGA AGGAAAATGT
157081 GTCTACTTAA TTTTGAACC CTATTTATCA AAAAACAGGA TGAAAATGCA AAATGCCATC
157141 CACATGCCAG AAGATATCAG CTATAATAAG TTCCATAAA TCAATAAGGA AAAGAACCCA
157201 ATAAAAATTA TTAAACCACA GTAAATCATG GGTAAATCAC AGAGGCCTGA AGGGCTAATG
157261 GACATACAAA AAGAATCTCA ATCTCACTAG TGAAATCAGA AAAGCACAAA TTAAGTACAC
157321 AATTAGGTAC CATTTTAAAT CTGTAAGACT GTCAAAATCA TAAATTATAT AAGTAAAGAC
157381 TCAGGGAGTT TTGGAGGAGT GAGAGCTCTT ATATTGCTTG TGGGGTAGAA TTGGAACAAT
157441 TTCAAGATCT GTAGTATCTG GTAAAATTAT GATATGCATC CCTCACACCA GCATGTCACT
157501 CCAAGGTATC TCCCTGGAGG GAACATTTAC GGGACACAAG GAAGCATGGA TAAGAATGTT
157561 CACAGTAGTA TTGTCTGCAA CAGCAACAAC AACAAAAAAA CCCAECTACA CACAACCTCA
157621 ATGCCCAGT CACAAGGCAA TGGATTAAT AAACCTCAGG CCGGAGATGG TGGTTCATGC
157681 CTGTAATCCC AACACCTTAG AAGGCCGAGG CGAGAGGACT GCTTGAGCCC AGGAGTTCAA
157741 GACCAGCCTG AACAAAATAA AGAGATAGTG TTTCTACAAA AAATTTTTAA AAAATTAGCC
157801 AGACGTGGCA GTGCTTGCCT GTGGTCCCAG CTACTGGGGA AGCTGACGTG GGAGGATTGC
157861 TTAAGCCCAG GAATTTAAGG CTGCAGGGAG CCATGATGGG GCCATTGCAC TCCAGCCTGG
157921 GTGACAGAGT GAGACCCTGT CTAAGAGAGA TAAGTAAATA ACAACTTTGC ATTTTCTGCC
157981 ACATTGCAAA ATGGTGAGAG AGTGGTTTTCT AGACTCTAGA CTCTTTCTAT GACTACCTTC
158041 TAGTTATGAG ATCCTACAAC ACTCACCTAA CCTCTCTGTG TCATATTTCC TCCTCTATAA
158101 AGCAAAAATG CCCCATATAG AGAGGACTGT GATATAAAAC AAGAACCAAG AAAAGTAAAG
158161 CTTTTCTAAT CTGTACAGA CTAAAGAGTG CTCAGTATAT GTGAGTCATT ATTCCTGGTG
158221 CTGGTAGGAG TGTATGTTAC AACTTTGAGT CAAGTAATAT GGTACCATAT ATTAAGATTA
158281 ACAACAACCT CGGCAATCCC AGTTTGGGGT ATGTTCCCAA AAGAAATGAA AGCACCAGGA
158341 TATAAGGATG CATGGACTAG AAAGTTATTG TAGCAACATT GTAATACTA AGTTCTAAAA
158401 ACAGCCTGAA GCTCCATCAG TAGGGATATG GTTACATATA TTTATTATAT TCTTATGGAA
158461 TATTAGACAT AAAAAGTAAC GAGTAACATA GAAGAGACAG TGTATATATG TTACGTTTGT
158521 ACAAACCTAG GGAAAGATAT AGATCACCTT ACCTAGAGAA GTCAGATTGG AGACGGGTGG
158581 GAAAAACCTT GAACCTTCTC CTTATATCCT TTATATTGTT TGAAGTATTA AAATGTATTT
158641 GTTGCACTCT CTTGAAGGCA ATGTAAAATA AAATAAACAT ACATTTAAAA ATAAAAATAA
158701 AATTTATTCC TATCACTTTT GTAATAAAGC TGGGCACAGT GACTAACACT TGTAATCCTA

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158761	GCACTTTGGG	AGGCAGAGAC	AGGCAGATCA	CCTGAGGTCA	GGGGTTTGAG	ACCAGCCTGG
158821	CCAACATTGT	GAAACCCCAT	CTCTACTAAA	AATACAAAA	TCAGCCAGGC	ATAGTGGTGC
158881	GTACCTGTAA	TCCCACGCTA	CCCGGGAGGC	TGAGGCGCTG	GAACCCAGGA	GGCAGAGGCT
158941	GCAGTGAGCT	GAGATTGCGG	CACTGCAAGC	CAGCCTGGGT	AACAGCGAGA	CTCCATCTCA
159001	AAAAAAAATT	TGAAAAAAGA	AAAATTTTAA	TAAACAGTGT	TTAAGAGGGG	AGAAATATTT
159061	AGTTAAAAGA	TAAGCCCATT	TAAGAAATAG	TTTCACTTGA	CCCGGAAGGC	GGAGCTTGCA
159121	GTGAGCCGAG	ATCGCACCAC	TGCACTCCAG	CCTGGGCGAC	AGAGCGAGAC	TCTGTCTCAA
159181	AAAAAAAATA	AAAGAAAGAA	AGAAAGAAAG	AAATAGTTTC	ACTTGAACCA	TATTATGATT
159241	CCTTCTGTAA	AAGATGAGAG	TAGGCAAAAT	GACTCAGTGA	AATCCCAGCA	AAACTTACAC
159301	AAAGTCTTGT	TCTTCCTTCC	TGTCATCTGT	ATAGGATGAA	ATACAGAGTG	CTTTTGGGTT
159361	TTGTTGTTGT	TTGTTGTTGT	GTATTTGAGG	GGAACACAGG	TCTATAATTC	CTTTTCTGAA
159421	ATCCCTGGAA	CAAAATGGGC	TTTGCCATTC	AAATTAGTTT	AGAAGTTATA	AAGGCAAAAA
159481	AATGCATATA	CTCTAAAGTT	CAACCCCATC	ATGGCCTAAG	GCAGAGCCCT	GTAATCAAAT
159541	TCATCAATAT	ATCTGCAGCA	AAACATTTAT	TCAAATTAAG	TGGGATAAAT	AAAGACTTTT
159601	AAATAGTCTC	ATCTCAGTGC	CGTTCAGGGT	TGGCCACTGT	GGAAGACAGA	CTCAAGGGTG
159661	GCCTTCTATG	ATTCTGCTCT	CTTGGTGTTC	ACACCCTCGT	AAAATTCCTT	GTCTTTGAGT
159721	GTGAGCAGGG	CTTATGAATT	GCTTCTGACC	AATAGGATAT	GGCAAAGATG	ATGGGATATA
159781	ATTTCTATGA	TTACGTTTCA	TTATGTAAGA	CTCCATCTTG	CTGGCAGATT	TTCTCTAAAG
159841	AGTCTGTCTC	CTGAGCTCTC	TCTGAAGAAA	TAACTGGCCA	TGTTAGAAGC	CCATGTGCAA
159901	AGAGCTGAGG	GGTGGCCTGT	AGAAGCTGTG	GGCAACCTCC	AGCCAACAGC	CAGAAATAAC
159961	CAGGGCCAAA	GTCTTGCAAC	CATCAGGAAA	GAAATTCTGC	CTGCTACCTC	AGTGAGCTTG
160021	GAAGTGGATT	CTTCCTTAGC	CTAGCCTCCA	GATAAGAACA	CAGCCTGACC	AACACCTTAA
160081	CTGCAGCCTT	ATCAGACCCT	AAGCAGCAGG	CCCAACTAAG	CTGTGCCCAG	ATTCCTGAAC
160141	CACAAAAATT	GAGATAACAT	ATCAGTGTTG	TATTAAGGTT	CTAAATTATG	GTAATTTGTT
160201	TGTACTAATA	GATAACTAAT	ATAACCACCA	AATCATTTCA	GGTTAGGCCA	GATTTTTGTA
160261	GCCAAATGAA	TCATGATAAA	ACTTTCATT	TTCAGGGGTT	TTTTTGATTT	TGTACTTACG
160321	GATACAAATT	TGTGAAAGTA	TAGTCAGCAC	TGATTTAAAA	AATCAAGGGA	GCAGGAAACT
160381	CAGTAAATGG	TTCTAACATT	TTGGAATCTG	TAAATTGGTT	GTAACATTTG	TCATCTGTGT
160441	TATCTAAGTC	AAGTTCCTAA	AATATGTGAA	TGATAGGTTA	TCATACTCAC	CTACTTTTCT
160501	TGCATTGCTC	TAAGAGTTGG	CTGAGCTATT	GATAATAAAC	ACTATGATCA	GATCTAATAC
160561	CATGATGTGC	TATTATGATC	ATGTGTCAGT	CACAGGGCTA	AGCACTTTGT	ACATGTTGAT
160621	GCATTTAATT	TTGATGATAA	CTCAATGAAG	TAGGAGCTGT	TAATATTTTC	ATTTTTCAGA
160681	GGGGGAAACC	AAGTCACTTG	GAGTAACATG	GCTAATAAGT	GAAAGAATAA	GAATTTGAAA
160741	GGTTTGACAA	GATAACCAGA	ATGCAATGCT	CATCACATTC	ACTGAGCAGT	GAATCATACT
160801	AAGTATGAGG	AGTATGAAAG	CTCTACTGAA	ATTAATAAAA	CAACCTCTCT	GGCTGTGAGC
160861	CTGCCAAGGG	ACAGGTGGTA	AACCTGGTTA	CTGCATAAGG	CCCCTTCTAT	CCACAGTATT
160921	CAGGAATTCT	TTAGTGAACA	TACCTTGATG	ACTCCTTAAC	ATTTTCTTCA	CATCGAAGTA
160981	AAGCTTGGA	ACATTGCACA	TAGTATGAAG	TTCCAAGGAG	ACAGCCTCTG	ATGTTTCCAG
161041	CTTCACAGCC	CAACTCCTAG	AATAAGCAGA	GGCGAGAGAT	TTCTTCAGAG	GTGCATTCCA
161101	TTCATTTCTA	TATACGCACA	CCCCTCCCCT	CCTGCATTCA	AACAGGACTT	ACCTGCTCAA
161161	AGTGTCAATC	ACATTCTATA	AAGAAACAAA	AAGAAAAGGT	GAGCATGGGA	ACATCGGTAT
161221	TTCATGGGGC	TTGTCTATGCA	GGGCTATTCT	TCTTTGCTTT	ACCCGAAGAA	GTAAAGAGAG
161281	TTACCCTAGT	CTTAGTCTTA	GATATTGATG	GATACTCAA	CAAAGTAATT	CCCACCAGTC
161341	TTAGGTATTG	ATGGATACCC	AGATGGAATA	ATTCCTACCA	GCTTCTGGGA	GATTTCAGCAT
161401	GGCAGGATGT	TTATCAACAT	TTGCATCTAT	TCTCATCCTT	GCTGAAGTCT	GAGGGCCAGG
161461	AGCTTTGTCC	ATGCTCCCTC	TGTAAGGACT	AGCTTTTGGT	GATCGGATTT	CCTTCACAGT
161521	GAGCCCAGAT	TAGAGAACAC	TTATCATAAA	GGTCCTTAGT	GGTGAATCTG	TGCACAGCCC
161581	TGAGACTGGG	CCACTGCCAC	TAAGATGGTG	GTAGCAGGTA	TCACACAGTG	GTAAAGCAAT
161641	CATGCTATAC	ACTCAGCCTT	ACAGTATAGT	CACCAATCCT	GTTAGTTAGA	ACCAGAATTA
161701	ATGGCTCCAG	ATGTTTATCT	TCCTACAGAT	AAAGCTGTAG	ATTGTACCAT	AACAGCTCTG
161761	GAGCAAGGGT	TCTACAAGCA	AATCAGGGAA	AAGGTTATCA	CTCATTTTGG	CTGCCCCACT
161821	TCATCACCCA	TCAGTCACCT	AGTGGAGTAT	TTCAGGAGAG	AGTCAACAAC	CAGGGTTCTC
161881	TGCACATGGG	CCAAGGAGGC	AAACAGTGGT	AAATGTTATC	CCGTGGTTTC	ATTTGGCCAA
161941	GCTGTGTTCC	CTCAGAAGTT	TATTTTCTTA	ATTGACATAA	AGGTACCCTA	TAAATTAGTG

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162001	AAGGCCAGCC	TGATGGCACT	GATGTACATC	TAAAAGAAAC	ATTACTTTAT	CTTCCCATGC
162061	TTCCTTACCA	TTCTCCTTTA	ATAGCACTAT	AACATACCTT	TTTTCCCTAC	TCCAAGTACA
162121	CAGCCTCACC	TGCAGCAATT	TCTGGGCTGA	GCCCTGACAT	TTTTCTCCCA	GTTCCAGGAT
162181	GTGGCTCTTG	AGTTCATTGC	TCTTCAGCCC	CAGACCAGCC	TCATAGTCCC	TCAGTCTACT
162241	CAGAGTCTGT	TGTTCTTCTT	TCTCCAGCCT	CCAGAGATAA	GACTTCTCTT	CCTCATGTAG
162301	GAAACACTGG	AGATTCTTAA	AGTCAGACCG	GATTTTTTGT	CTCTGAATCT	GTACCTTCTC
162361	CTGGAGTCAA	GAAAGTATGG	TCAAAAGGTG	GAAGTAAACC	AAATGTCCAT	CTATGGATGA
162421	ATGGATAAAC	AAGAATGAAA	GTCTGACACA	CGCTACTACA	TGACAAGCCT	TGAAGACATT
162481	CAAGCAAAAT	AAGCCAGAAA	CAAAAGGGCA	AATATTGTAA	GACTTTGCTT	ATACAAGGCA
162541	TCTGGAGTAG	TTAAGTTCAT	AGAGACAGAA	AGTAAAAATAG	TGGTTACAAG	GTGTTGGCAA
162601	GACCAGAAAA	TGGACAGTTA	TTGTTTAAATG	GGTAGTGAGT	TTCAGTTTTAG	AAGATGAAAG
162661	ATGAAACTGA	GTTGCAGTTT	GGAGATGGGA	ATGGTGATGG	TGACACAACA	ATGTAACAAT
162721	GTAAAGCAC	TTAATTCTAC	TGAACATATAT	ACTTAAAGT	GGTTAAATGC	TTAAGTGTTA
162781	TATATATTTT	CACACAAACA	CACACACACA	CACAATCAGC	CACTGGGACA	TTATTTTCTC
162841	ATGAGTCACT	GAAGCTGGAA	GAATGTCCCC	AGTTTCCTGC	TGCAGAGTCA	TGTGTGGGAG
162901	GCAGGCACTC	AGATGTGGAA	GAGGTTGCCT	CAGATTCCTT	ATAGTCACCC	AATTAATTTT
162961	CTTGTTCTTC	AGCCAAGACA	CAGGAGAAAG	CTGGGTTAGG	AGTGCTAGAT	AATTTAATTG
163021	TGAAACTAGG	GCCAAGTTCA	AACACTTTAT	CAGTTACAAG	GATAAAAAGA	GGTTTTTACT
163081	TATGATTTAA	GAAGTTAGAT	TTCTGAGTTG	GAGCGATTTT	CTTGAAGTAA	AAGCTTATAA
163141	TGAACATCAC	CCAGACTGGA	TTTTAAGACA	ACCAGGCTGG	TAAGAGGGTC	CATAATTCTT
163201	GGCAGGGGGA	GCTTTGAGTG	TGACAGGCAT	TTATTATGGT	TAAGTGAGAA	ATACTGTTCT
163261	ACTACCCTAG	GGTCATCTTA	AGCATTCCCTA	TGTGTAAGAC	TGACAGAAAT	CAAGTGAAC
163321	TCTCATCTGA	GGAGATGTAA	AGTTGCAATT	TCCATTAGTG	CTGTCTAAAT	TAATGCAGTG
163381	GGAGTGTGTA	TTCAGGGCAA	TTTGAATCTA	TGTTCTTGGA	TTGCAGTCTT	CAAACCTGGC
163441	CCAAATAAAC	TCTCTACTTA	TCTTAAAAAA	ATAAAAATTA	AAAAATAAAA	ATAAATTCAT
163501	ACAGTGTTTT	GATGACTATG	ATATAGAAGA	AGGGTCTTTG	ACTTAGGATG	AGGTGGAATT
163561	TTTGTGTAGG	AGACAGGTGC	AGCTTTAACT	CTTGATAGA	CGGGTTTTCA	TATATGTTAG
163621	TTACAATCAA	GGTCTTCCCC	ATTGCCCAAG	ATCCTAGAAA	TGGGGGAAGT	AAGAGTGTAC
163681	TCAGGAGCTC	AAGAGCAACA	TCCACAAACA	AAGATCAGGG	TAGAGGTTAG	AGAGGACTCC
163741	TGAAAGAGAG	AAAATTGGTA	ATCAGCTTGT	GGGATTTTAC	TGCAAGCTAG	TGAATTATAT
163801	AAATATAAAG	ATTGGTGCAA	AAGTAATTGT	GGTTTTTGCC	TTTACTTTAA	TGGCAAAGAC
163861	CGCAATTACT	TTTGCACAAA	CCTAAATATT	TCCATAAAG	AATGTGGCTC	TGATAATGTG
163921	GAGGTTAGTC	AGCCACGGAA	ATAATCTGAA	AGTTTGTAGT	TGCAAGTGTG	TAGGTTGTTG
163981	CATTACTTGT	GATGTACTTA	TAAATCAAGT	ATAGGCCGGG	TGCAGTGGCT	CACGCCTGTA
164041	ATCCCAGCAC	TTTGGGAGGC	TGAGGTGGGT	GAATCACGAG	GTCAGGAGAT	CAAGACCATC
164101	CTGGCCAACA	TGGTGAAACC	CCGTCTCTAC	TAAAATACAA	AAAATTAGCC	AGGCATGGTA
164161	GCACATGCCT	GTAATCCAG	TTACTCAAGA	GGCTGAGGCA	GGGGAATTGC	TTGAACCCGG
164221	GAGGTGGACA	TTGCAGTGAG	CTGAGATCGC	ACCCTACAC	TCCAGCAAGA	CTCCATCTCA
164281	AAAAATAGTA	ATAATTTAAA	AATAAATAAA	TAAATAAAGT	ATATTTCTTT	CATCAGCTTC
164341	ATGAGCTAGA	GATGATGAA	TTTCAATCTG	GAGTGATCCT	GTTTTCTAAG	TGTTCAAAA
164401	GCTTGGTTTC	TGTACCTGTA	AAGTTGAGAG	CCAGATGCTC	CACTGTGGTA	AAAGTGCCAG
164461	GGTAATGAGT	TGAGGCCTGC	AAACCAGGTT	TATTTTGACG	TATTTAAAGT	TTGAGACCCA
164521	CTCGATGCTT	TTTCTAGGTA	AATAGTCATA	CTAATCTGCT	TTCTTCTGAC	TGAAGTATCA
164581	GGAATCCCAG	CCAACCTACAG	TTTAAAGATG	GAAAGATTGG	TGCTAAATAC	TCATGGATGT
164641	AAACCTGGAA	CCAGGGGCAT	AAGTACAAAT	AATGGTTTCT	TCCTTGGGTT	TCATTTTTTC
164701	AATCTGGTTT	AGTGAGAATA	AATCCTCATT	GTGCTTTTCC	TCAATCATCC	CCTATGCCTA
164761	AGCTCTAGAA	TGGAAAATAG	CTTGAGATCA	ATGAAGTCAG	ATTCTTACTT	TCCATTTAGT
164821	TATTCGCATT	GCTGTGGACA	GCTTCTGCTC	CGTACATCTG	TCTTCAAGTT	GCTTCAGTTT
164881	TGTCACAGCT	TTCTGGAGCT	TTTCTGGAAG	GAAAAATTTG	ATAAGTGAAG	CCTATTCAAT
164941	TTGACTCTTC	ATTAGGGACC	TAGGGGGAAAT	CCCAATCTTC	TAAGATATAT	TTGAATAATA
165001	GTGAATATTT	ATAGAGTCCT	CATTGTTTTT	TGCTAGAGAG	CATGCTAAAG	GCTATATGTG
165061	CAGGAACATA	CTGATCCCTT	TGGCAACCCCT	GAATAGTTGG	TAGGATTTTA	AACTTCATTT
165121	CTGTGCTGTA	GAAAATGAGA	CTAAGAAAGG	GGTAAATATA	CTTGCCCAAA	GGGCTATGAC
165181	TGCCAGGTGG	TGGAGCAACA	ATTGCAATCT	CATCTGCTGA	CCCAGAGCCT	GAGCTATGTC

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165241 CACCACTAGA GTCCTGCCAG GAAAAAGTTG GATATAGAAC AAGGTAATCA TCATCTAAAA
165301 GATTTTGTA AACACATGC TGAACCAAGC AAAACCAATA CCAGTGTGTTG GCACACATGA
165361 AATTTTGTGT CTTATGAGTC AGGAAAAATC AGGATGCCAG CTGGTTATTA GAAACAGTTC
165421 ATGGAAGAGG GGAATCTGG TATCTTTTGA ACAATGGTAT CATGAATCCA ATTTAAATG
165481 ATTTAGTATT CATGTCAAGC TTTTAGCTTA TTCTTCAAAA CAGTTTCTCA TATTTCTATT
165541 GAAAGTGATT TGAAGCTGAC CCAAATTGCT AATTGTAGTC AATGCTGAAA GAATTGTCTC
165601 CTGTCTCTG TAAACCCAAC AAGTATACTC ATTCATTCTC GAGTGTCTC AGGAAAAGGT
165661 TCTATGTAAC TGTTTTAGCA AAAGATGACA TTGTCTTAC TATATGCCAA GTGCTATTCT
165721 ATGCATTCTA TATTTAATG TCCTCAAAGC TTATAACCAC CTCCTGTGTA TGTGTTTAG
165781 GGAGGGAGGA CACTGCTATT ATCCCATTT ACAGATGGAG AAACCAAGGT GTGAAGACAT
165841 TAAGTAACGT GCCCAAAATT GCCCATCTAG TAAGTGACAA AACTCAATTT CAACATAAGC
165901 TGGTTCCTTT TCTTACTACT TGGTGAAAAA GTAATTCAAA TGGGAATATG ATCATCGCAG
165961 TTATTAGCTG CTCCATGGAG TTTAAGGAAG AGCTGCCATG AGCTGAGTGG TGGTCATGAT
166021 TGACATGTCC TTAGAAGGAC TTAGAGCCTT CATAAAGAC CACCTCTGCC TCATGGAGGA
166081 CAGAATAAGG AGCCTGACAC TGGAGACAAC ATTTCTCTCA AATTAGGCA GGACAGAGAA
166141 GGAAAAAGGA CATCAGGACT ATGCCCATTC CTCCATGCTG CCAACAGCAA AGTCCCACCT
166201 TCCTTAATAT GCTTCTGGC AAGAAATCTG GATGGTACAC AAAACCTCTC CCTCTGCTTC
166261 ACCTTCCACA ACCAAGCATT TCCAAATCTT TGACTCTTCT TCCTGAATCG TGCTTAAAT
166321 CTGCCCTCTC CTCCCTTTCT TATACGGATA GTTGAATTT TACTCCTTGA TATCTCTTT
166381 ATCATAGACA TGCCACAGTA GCTGGGCACA GTGGTTCATG CCTCTAATCC CAGCATTTTG
166441 GGAGGCTGAG ATGGGAGGGA GACCAGGGGT TTGAGGCCAG TATAAGCAAG AAAGGCAGAC
166501 CATGTCTCTA CAAAAATAA AAAAATTATC CAGGTATGGT GGGGCATCCC TGTAGTCTTA
166561 GCTACTTGGG AGGCTGAGGT GGGAGGATTG CTTGAGCCCC AGAAGGTTGA GGCTGCAGTG
166621 AGCCGAGATT GCACCATTGT ACTCCAACCT GGGATACAGA GCAAGACCTT ACCTCAGGAA
166681 AAAAAAAAAA AAAAAAAAAA AAAAGTAGAG GTACCAGAGT GATATTTTCA ATGTCACCTGA
166741 CCCTTCATTC CCCAAATGAA AATCCCCCAA TAGGTGTTCA ATTTTACGT GTCCTTCAGG
166801 AGTTACTTCT AAGATGAACC ACTCTCTACC CTAAATGTCC CTCCCCACCA CCAAACCAG
166861 GGACCTCCAG GCAGACATTT TTGATGGTTT GTTTCTTTA CTAGACTGTA GATACCTAAA
166921 AGGTGATGGG TCTTCTTCC CTGTTTTCAG GCCCTACTGC ATGGCTTTAC ATATTGTGGT
166981 TTTTCAAATG ATATTCATGG TGTGAAACAA GAAAAAATGC GGGTGTGTTG TTTGAGAACA
167041 ACCTGTTCTA AAGCAAAAAG AAATTCATCA TAACACAAAT GGATAGAGAT AAGAGTCCAA
167101 CCATCCCATT GAAGGTCAGG ATGGACAGTC TAGATAATTG AGCAAGAAAT CATCATAAAC
167161 TATTTTTCAG AAGAATGACA TGATGAAAGC TGTATTTCCA AGTCATAATG TTAGGTTTCA
167221 AGTTAAATCA TCTCAGCTCC TGGGGAGCAG GATAAGACTT GGTACTTACC AAAGCTCCCCG
167281 GGCCACACACA CTCACCTTGT AGCCCTGGCA TACGTCTTCA ACAAGAGCTG TGGTGTGCCC
167341 TTTGTGCTGT GGTGCCCGCT CACAGCGCCA GCAGATGAGC TGCCCTCGT CTTCGCAGAA
167401 CAGGTGGAAC TGCTCTCGT GTTCTCACA TGACATTTCT TGATCCGTCT CTTTGAGGGC
167461 TTCAATGAGG CTTCACAGCT GCTTGTTGGG TCGGAGGCTA TCCATATGAA ATGGAGCCCG
167521 ACACTGGGGA CAGCAGAATG TCTCTGCCT CAGTTGCTTT TGGCTTGGGT TTTTAAAGAA
167581 GTCTGTTATA CACAAGTGGC AGTAGCTGTG TCCACAGTTG ATGCTTACTG GGTTCGTCAT
167641 CAGGCTCAGG CAGATGGAGC AGGTGGCTTC CTCCATCATC TTCTTGGTGC TGGTGGTTGA
167701 GGCCATAGCT TTTATTGAAA AGCTCCAATA TTGGCTCTAG AGATGGAGAT GAAGCAGCCA
167761 GAATTTTCCA CCGTGATGAA AATACACCTC ACCTGCACCT CTATGTGATG AGCTGGCTGC
167821 AACTGACTTC CATAGGTCTT GAAGGTTTTT CTTCACACC CTATTATCTC ATTTTGTATT
167881 GAAGAAAAGA GGACCTAAAA GGAAGAAGTT GAGGCTGAGG TTGTTGGGC CACGTTTGAG
167941 AACTGCAACC CAAGTGACAG GTTCAAGTT GCCCTCATT GCAAGCAGTT ACAAGTGGTT
168001 GTTTAGAGGA AAAAAAGCAG TTTTAAAGCA GTTTAAAGT TGTGTTGCCA GAATTTACAT
168061 TAAAAATAGCA TAAGCTTTTG ACTGGCTATA CATTGTTCTT TGTATTACAA ATCTCGGGAA
168121 TATGTAGGTA ATAGATGAGG CAGCCAGTCA GGAACAAAT GCTTTTAAAC ATGGGGTCTT
168181 AACTGAAGAC CTATACTCCT GCCTCACTTG TCCTGATAAA TTTTGATAC CTCACATAGC
168241 TCAGACTGCT CTAAATTATT TCATTATTTT TCTTTTCTCA GTCTTCTAAC TTTTTTTTTT
168301 TTTTTTAATG AGACGGAGTC TCACTCTGTC ACCCAGGCTG GAGTGCAGTG ACGCTATCTC
168361 GGCTCACTGC ACCTCCGCT CCCGGGTTCA AGCGATTCTC CTGCCTCAGC CTCCCGAGTA
168421 GTAGCTGGGT CTACAGGTGT GCACCACTAC GCCCAGCTAA TTTTGTATT TTTAGTAGAG

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168481	ATGGGGTTTC	ACCATGTTGG	TTGGCTCGAT	CTCTTGACCT	TGTGATCCAC	CCGCCTCAGC
168541	CTCCCAAAGT	GCCAGGATTA	CAGGCATGAG	CCACCGTGCC	CAGCCTCTTT	TTCTTTTCTT
168601	ATAAGACAAG	TTCTCGCTCT	CTTGCCCAGG	CTGTAGTGGA	GGGCAGTGGC	ATGACCACAG
168661	CTCACTGCAG	CCTCGACCTC	CTGGGTTTAA	GCAATCCTCC	TGCCTCACCC	TGGCAGAGTG
168721	GCTGGGACTA	CAGGTATGTG	CCACCATGTC	CAGCTAAAGT	CTTCTCTCCA	GAAAGAAGAA
168781	ATGCATTGGA	ATTTAGAGGA	TACACAAACA	TCTAGCTGTA	TAGCTAATAC	AGTAGCCACT
168841	ATCATGAGTA	GGAATTTAAA	TTAACTTAA	TAAAAATTAA	AATGAAAAAA	TTCAGTTTTT
168901	CTGTTCCAGT	TGCCACATTT	TGATTGCTTA	ATAGTTGCAT	GTGACTAGTG	GCTACATAAC
168961	AGCCTCAATA	TACAACATTC	TGTTATCACA	GAAAGTTACC	TTGGACCAAG	TGCTGGGAGA
169021	AGCAATGCAG	GCTTCCTCAC	AAAAGCTGTA	AAAGAGAGAA	CTCAGGGAGT	GTGAAACTCT
169081	TTCCATATTCT	AGTTAACTTC	AAGAATAATT	GTTACCAGGC	CAGCACGGTG	GCTCAGCCTT
169141	GTAATCCTAG	CACTTTGGGA	AGCCGAGGCG	GGCAGATCAC	CTGAGGTCAG	GAGTTTGAGA
169201	CCAGCCTGAC	CAACATGGCA	AAACCTCATC	TCTACTAAAA	ATACAAAAAG	TTAGCTAGAT
169261	GTGGTGGTGC	ACACCTGTAA	TCCCAGCTGC	TCAGGAGGCT	GAGGAAGGAG	AATGACTTGA
169321	GCTCCGGAGG	GGGAGGTTGC	AGTGAGCCCA	GATTACACCA	CTGCACTCCA	GCCTGGGTGA
169381	AAGAGCGAGA	ATCTGTCTTA	AAAAAAAAAA	AAAGAATAAT	TGGTACCAGA	ATTACTCTTT
169441	GTAATTAGTA	GTAACACTTA	TGCAATTGGG	TGATCTGTGA	CAGATTCCAT	TGAAGGAGTA
169501	TGGGGAGCTT	CACCCCAATA	TATGACTCCC	TGGTATAATG	AGTATTTTGA	ATTAAAGGCC
169561	CTTAGAGATC	AGCAGATGCT	GGAAAGAGACT	TTTCCCTTAT	CTACATAAAG	ACCAGTCACA
169621	CTAGACAAGA	AGAACAATTG	TTTTCCTTTC	CAACCCCTAT	TATCTCATTT	TGTACTGAAG
169681	AAAAGAGGAC	TAAGAATGTA	ACCAGACCTA	ATCAGACACT	TTCACAAAAT	AATGTCTGTC
169741	TCTCAGGCTC	ATTCATTTTC	CAAAGAGAAC	CATTTACAAG	TTAAACTCTG	TTCTCTCCATT
169801	CATTATCCTT	CCCAAATATT	CATTTATTCT	CCCTAGTAAT	CATTTACTGC	CCCTCAAAGA
169861	ATTACCTATA	TTCTCCTGAT	ATCACCTTTC	CCCTCTGAAA	TAAATATGTA	TACATGTATA
169921	AACGTTATAC	ATACATATTT	ATACAGTATA	CATACATATT	TATACATACA	TACATATGCA
169981	TACATATTTA	TATTTATGTA	TTTATACATA	AGTATTTTATA	AATAAGGCTA	TATAAGTATC
170041	TACCCCCATT	GGCAGAGGGG	GTAATCACTC	TGTGATTCTA	GCCCATGTAC	TTGTTAATAA
170101	ATTTGTATGC	CTTTTCTCCA	ATTAGCTGCT	CTTTGTGAG	TCGATTTTTC	AGTGAACCTC
170161	AGAAGGCAAA	GGGGAAGTGT	TCCCTTGGCT	CCTACACCAT	CATGACAATA	AAATTTGACT
170221	CCACCTCGAC	CCCCCCCATC	CCCCACAAAG	AACAACAACC	AACACTGGTT	AATAAGGTCTG
170281	GTTGTTTTTT	GTTTGTGTTT	TTGTTGTTGT	TGTTTTTGCT	TTCAGGAGCA	GAGGTATAAT
170341	AGGCAAAAGA	AAGAGAAAGG	AGAATAGTGA	ATACCTCTTC	TGCAGAGAGG	GGTGCCTAAG
170401	TGGGACTTCC	CTGGCTAATA	ACGTCTTGCT	AGAGACCCAA	CCAGGAGGAT	AATGGAAGCA
170461	ATCAAGGCAA	CCAGAACAAC	CAGAAGAACC	GGTTTATCCT	TTTTGTGCCC	TCTCCCTAAA
170521	CTGAGGGAAT	AAGAATTGGA	AAGAAGGCTG	CAGAGCAGAG	GGTTTGCTCC	TGAGGAGCAG
170581	TTATTTCTAT	GGGATCAGAG	CTCCTGCAGA	ACTGGGGAGT	TTACTTTTAC	TATCTCTTCT
170641	CCAGGACAGG	ACCTATCTCA	AGAGACATGT	TCAGAGTGAT	TGCAACATAA	AGAGTTTGCA
170701	GACCCAAGGA	GGTAGGGAAG	GCAGAAAGAA	GATGGGGGAG	GCCAGGGATA	GGCAACAGAG
170761	GAGTGACCAG	GAGCGAAAAA	GCCTGCCTCT	TCTGAGAACC	TAGCTGGGCT	CTCCCTGTAC
170821	CCCCGATCCC	TCCCCCCC	CCGCCCCCAC	ACCCCTACTC	CTGGGAGCTC	CTCTAGGACA
170881	GGGGCAGAGT	CAGGAGGAAG	TTTGAAGAGT	GCCTAGAATA	AAAAACAGTA	ATTTAACTAC
170941	AATTACCGGG	TAGGCTGTTT	TCCTCTCACA	ATTTGATCAG	TCTCTTGAAG	CCACACAGAA
171001	TTTCTTCTGA	AGACGTGTAT	TCCTTGCCAG	GCTATTTCTT	CCAGTGATAC	ACCAGGCCCC
171061	TCTCTGCTGG	GGTCACTGCT	CTTCTGGGGA	GATGGGGCTC	CCCTCCTTCC	AAGGCTCCAG
171121	GGTTCCTGTC	CTGGGCCCCA	CTCATCTAAG	TTCTGAATCT	TCTGAGATTT	GGTGTAAGT
171181	CTGGTGAAAG	AAAGAGCAGG	AAAGAGGTGA	GAGCTGTAAA	ACAAAGAAAG	TCCTGACCAT
171241	TTTCAGAGTT	GGAGGGGGCC	TGCTGTCAAG	AAATATATT	CCACCCCCAC	TTGCCATCAG
171301	TACACACTCA	CATATCCACT	GAGAAAACTT	TAGCCTGGAC	CTTTTCCGTA	ACCTTCACTG
171361	CTCAGACACT	TACATATTCG	CTGCTAGTCC	CCTCTGTTGC	TGCCACTTCC	TGGGTCAGGA
171421	AGTTAACTCA	GACCGGATTA	AACTGAGAAG	TGAAACTACT	GTGGGAGGCG	GGGCTCATAA
171481	GATTTAGGAG	AAAAC TAGTG	ACGTGTGTTCA	TATCATTTGC	ACTCCGCCTC	TCCGGTAAAG
171541	GAGGGGGAAA	CGTAGGAAGA	AAATATCCTT	CTTTTACAGC	AATAAAAAAG	AGGAACCAAT
171601	TAATAACCCT	GTAAACTATC	ATGTGACCCC	AACACAGAGT	ATCTAAAAAC	AGGAAGCCTG
171661	CAGAGGTTCA	GTTACACAGAC	TCTGATTGTA	GATCTTTCTA	CTTTTGCCAC	CAACTCCCTT

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171721 GGGAGTCCTT AAGCCTTCCT AGCTGATGTT ACTTCTTTTG CTATTTATGG GTTGCTTG TG
171781 GTTCTATAAC TGCTCTGAAG GGTGTGGTGG AAAAAGGGGT GGTAACAGCA GTAGGACTCA
171841 TTGGCATCAC AAAATTCATC TGAGTCAGCT TTCTATTCTT CTCTGTCCCG TTCTGTGTCT
171901 TGTTTTTCTC CTTGCTGTCC TTCTGCAGGA CTCAGATCTT CTTCAATAGC GAGGGTCAGC
171961 CAGGATAGAA AATGGGAGTC ACTAGTGGCC CAGCAGTGAG TGCCCCCAGC TTAGAGCTGT
172021 GTGGGATCCC TGGGACCATC ACTCTGCTTT GTGCTTTGTG GAGAAAAGGC TGTGGGGTCC
172081 AGGGTCAAGT CCTTAATGAC TTAGCTCCAG CTTCTCCACT TCAAAATGAA AGGAAAAGTA
172141 CTATCACCAC CCGTTAGAAT TATTATTTCA TGGGGAAAAA AGATGGATTA CTATCTCACA
172201 ATAAGAGCTT GTCACATTTA TAAGTCTCAG GTGTAAGAGG CATTTATGAT AACAAACATA
172261 TAAATGCTGG CTTAAGTAGA TGCAGTGGTC CAAGGGAACC AGTAAGGGGA GCTCAGGACA
172321 CAGGTGGGAG GAGAAATTAA ACTTGAATTC TGGGAGCCAC TGGCCTGTCT GGGCCCCTGG
172381 CCTGCCTGCT GACCCTGATA GCCAATGGAA CATGGAGTTT GGCCAGCTG CAATCCCTCT
172441 GGTCCAAC TA CTA AAAATAA AGGCAAGATT GGGAAACACG TTCCTTTCTT CCTATACCAA
172501 GCAGAAGACT CTTCAGCACT GCACCCTCCT GGGTGCTCAC AGAGCCTTCT GTTGTTTTGC
172561 CACCTACGAT TCATCATGCC CTGGCATGAT GGTGTCAGAC CCCATGCATA GCATGGGACA
172621 TTCTACTCCT GAGGCAACCA GCACACAGAG AGAGGAGAAA GAATGAGCCC CTGAATCCTT
172681 GGTCCACGA TGAGTCCTTG CAGATATCTA CAACTTTCAT TGTGTGGAT GTGACTCTGT
172741 ACCCAGGCAT GGCTCATTCC AGATCTGTCC TATTGTGAGA GGTGTTCAAA CCAGAATGAC
172801 TCCATTTTGA ATGGGGGCTA GGTAAAATAA GGCTGAGACC TACTGGGCTG CATTCCCAGG
172861 AAGTTAGGCA TTGTAAGTCA CAGGATGAAA TAGGCAGTTG GCACAAGACA CAGGTCATAA
172921 AGATCTTGCT GATAAAACAG GTTGCAAGTA AGAAGCTGAC CAAAACCCAC CAAAATCAAG
172981 ATGGCAACAA GAGTGGCCTC TAGTCATTCT CATTGCTCAT TATACACGAA TTATAATGTG
173041 TTAGCAAGTT AGAAGGCATT CCCACCAGCT CCATAGTGGT TTATAAATAC CATGGCGATG
173101 TCAGGAAGCT ACCCTATATA GTCTAAAAAG GGGAGGAACG CTTGGTTCTG GGAATTGCCC
173161 ACATCTTTCC CAGAAAACAT ATGAATAATC CACTCCTTGT TTAGTACATA ATCAAGAAAT
173221 AACTGTAAGT ATCTGTATTA TCCATTTTC ACACTGCTGA TCCAGACATA CCTGAGACTG
173281 AGTAATTTAT ACCAGGAAAA AATGTTTCAT GCTCTTACAG TCCCACGTGT CTGGGGAGAC
173341 CTCACAACCA CAGCAGAAGG CAAGGAGGAG CAAGTCAGGT CTTACATGGA TGGCAGCAGG
173411 CAAAGAGCTT GTGCAGGGAA ATTCCTTTCT ATAAAACCAT CAGGTCTCAT GAAACTTATT
173461 GACTATCATG AGAACAGCAG TATAAATTAC TCAGGGAAG ACCTGCCCCC ATGATTCAAT
173521 TACCTCCAC CAGGTCCCTC CCACAATATG TGGGAATTTA AGATGAGAGT TAGGTGGGGA
173581 CACAGCCAAA CCATATCAGT ATCCTTAGTC CAGAAGCTGA TGCTCTGCCT GTAGAGTAGC
173641 CGTTCCTTTA TTCCTTTACT TTCTTGCTTT CACTTTACTG TGTAGACTTG CCCCAAATTC
173701 TTTCTCACAC GAGATCTAAG AACCTTCTCT TAGGGTCTGG GTTGGGACCC CCTTCTGGT
173761 AACACTATCA AAGGATCAGG AAAAGGAAGC TAGTGAATGC TAAAAAGGAA ACAAACTACC
173821 ATTACCAATA ATAACAGCAA GACAAAAGCA AAACGGATTG TGACAGCTGT CCCACTCAC
173881 ACCTGTTTCC CATTGCAGGA AGGAGGGGCT GGTTCATGCA CAGAGTGGCC AATATTAGAA
173941 GCAGAGATGG GGTGCAGATG AGACTTCAGG AATATGTTGA CAAAGGCAGG CCTAGGGAGA
174001 AATCAACCTG AACTATCCCC AAGGAGGAAT GCATTATCTC TAATATGTAA AGTTAGGCTT
174061 GATCCTGTGA TTATGGGATA TAGGAGTCCA AAGACTCACA ATGGGAAGTA GGTCACTAGA
174121 GTCTCCTTCA GAAGCTCTGT ACTGTGTGTT CCCACTGTGG GCAAGAGTCA GCACTCAGCT
174181 ATTCCTAGAA TGCCTTTCCCT CAACTCCTTC AGATTTTGCC TCTCAACTAA CCCTATCCTG
174241 ACCACTTGTT AGCAAGTGTA CCCCTCTCTC CCTCCCAAAC ATTTTCAAAT CTATTTTGTT
174301 CCCATGGCAC TTATCACTGA ATATTTTACT AATTTATTTT GTTTAGTGTT TGCTTCCCTC
174361 ATGAGAATGC AAAGGGATGG ATTTTTTTCA ATATTGTTCA CTGATGAATC CCAGTAAC TA
174421 GAATATTTCT AAGCATAGTG ATGTGCATTA AATCAAAGAG TAACTTTCTG AATTGCACTA
174481 AACACACATC ACAAGAGGTG TGTGCACATA TGTGCATGAT GCACGTAGTG TGGTGTGGGT
174541 GTTGTGTGGG GTATGTGGTA CTGTGTGTGC TGTGTGTGGT ATGTGATACA TAGTTTGTGT
174601 TAGTGTGATG CATGTGATGT GGTATGTGTG TGCCTGTCCA TACATATTAG GGGTGGCGGG
174661 GATGTTAATA TGTCAAATGG TACTAGAAAG TATCAGAACT CATGGTGCTT ACTGGTTTCC
174721 CAGAGAGCTG CTTCTCTCCC ACCTGTAGGA TATACTGATG GTTTGGACAG AGAAGAAATA
174781 AAAAGAAGGC TGTGACCTAC TGGGCTGAGG AAATAAAAC GAAAGTAAAA GAAGAGCTGG
174841 GAAAAGAGAG TGGAGGGGCC AAGGGAAATT TCCCCTTTGG CTTCTGGGGA AACTTTGTCTG
174901 AAAAATCAAC TCACAAATTT ATTAACATGT ACACAGGGAG AACCATAGAA TGATTATCCA

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174961	CTTCCCAAGA	GGGCTTAAAA	GCTTATATAT	TATCCTGGCA	AAACAGATTA	TGGGAGGGGA
175021	AGAAGAGAAA	CTCTGTTGAT	GGGATTACTG	TTGCGGATTT	TTGCTCCTTC	GCTCAGCTAG
175081	GTCCGGGTTT	TTGTCTCACA	GCCAGGAAGA	ATTAGGCATG	CAGCCATCAA	AGAATGAGTG
175141	GAGTAGAATT	TATTAAGTGA	AAGGAAAGCT	CTCAGCAAAG	ACAAGGGTCC	TGAAAGCAGA
175201	TTTCTGGTTT	GCTCTTCACA	GTTGAATACT	AGGGCTTAAG	ACTCAAATTC	CTGACAACTC
175261	CACCCTGTCC	TACCAGTGCA	TGCAGGCCTT	TAGACTGAGC	TACTCCATAT	TGATTAATTT
175321	CCTGAAGTGT	GCATGTGTTA	AGGAAAGGAA	TCATCCACTG	CAGGCATGTT	TAGGCAGGCC
175381	CCCTGTGCAA	GTTCCCTTAT	CTGCACAAAA	CATCCGGTGT	AAGCACTTGT	GGGGCAGGTC
175441	AGAGGTTCTC	TGGGTACCAT	TCCCTTACTG	TCTGCCTAAA	GCAAGCTGGC	CAACTCCTTT
175501	CATTACTAGG	GAGAGTAAGT	AGATCAGGGA	ACAGAGATTA	ACTTGAACAT	TATCTTGTGA
175561	AAGTCCGTTT	GGGCATGGTT	ACATTCTTGG	TCTTACAGGA	AGGGTAAATA	AAAAATAATTG
175621	CTCTTTTGGG	TGGGTCTGGA	TCTTAGGTAG	ATAAAGAAAC	TTTAATTCCA	CGATGTGTTT
175681	TGGTAGGGAT	AGTTGGTGGC	AGGGATGTCA	GAGAGACTTT	GAGGCTTCTT	CAGTTCATAA
175741	TGACCAAGGG	CCATATATTA	GGGTATCAAT	TTCTGAGCCC	CAACAAGAGC	TTAGGAGAGA
175801	TGTGATAGCA	TCACAGTGTG	AAAGCAATTT	TTGTGTTGTT	TTTAGAGACA	GGCTCTTGCA
175861	CTGTCACCCT	GGCTGAAGTA	CAATGGTACG	ATCACAGCTC	ACTGTAATCT	TGAACTGGGT
175921	TCAAATGATC	CTCCCATCTA	AGCATTTCAA	AGTGTGTTGG	TTACAGGCAT	GAGCCACGGT
175981	ATCCAGCCTG	AAACTGCACC	CACCTTCTGA	TAAACTTTTC	AAATGACTAA	AGGGGAGAGA
176041	GTAAGCACTA	CTCAGAGGTA	GGAAGAAAGG	ACACAGGATT	ATAGGATTAA	AACAACAACC
176101	ACCAAAAAAA	ACCAGACCGG	TGTGGTGGCT	CACACCTGTA	ATCACAGCAC	TTGGGGAGGC
176161	TGAGGTGGGG	GGAGTCACTG	GAGGCCAGGA	GTTGAGAGCG	AGCCTGGCCA	ACATAGCAAG
176221	ATGCTGTCTC	TATTAAAAAA	AAAAAATACC	TGCCTTGAGC	TAATCAGAAT	CATGGACCTT
176281	GACAAAGGAT	GTCCCAAAGT	AAGTCTTAGC	ATTTTTTTTT	TTTTTTTGAG	ACAGTCTCGC
176341	TGTGTTGCCC	AGGCTGAAGT	TCAGTGGCGT	GATCTCGGCT	CACTGCAACA	GCTGCCTCCC
176401	AGGCTCAAGC	AATTCTCCCT	GCCTTCAGCC	TCCCAAGTAG	CTGGGATTAC	AGATGCCCAC
176461	CACCACGCCT	GGCTAATTTT	TGTTTTTTTT	AATAGAGATG	GGGTTTTGCC	ATGTTAACCA
176521	GGCAGGTCTT	GAATCCTCTG	CCTCAAGTGA	TCTGCCCACC	TTGGCCCCCTC	CATAGTGCTG
176581	GGATTACAGG	CGTGAGTCAC	TGCACCCGGC	AAAGTCTTAG	CATTCTTTAC	AAACAGTTTG
176641	TACCCGTATC	TCTAAAAGGG	AGTAGTGAAT	TTCAACCCAA	AATGTGGCTT	CCTGATATAA
176701	TGAGTATTTT	GAATGAAAAA	CTCTTAGAGA	TCAACAGACA	CTAAAGAGAC	TTTTCCCTAG
176761	GTACATAAAA	ATAGGATGGC	CCCACCAGCG	AGAACAATTG	TTCTTTTCTC	CCTCTCTGTT
176821	ATCTCATTGT	GCATTATAGG	AAAGACCAAG	AATGTAACCA	CACCTGAACA	GACCTTTTAA
176881	TAAGATAATC	AGTCTCTAAG	CATCATTTAA	ATTCCAAGGA	GAACTATTTA	CAAATTTATC
176941	TGTTCTTTGA	TCCAATTAGT	CTCTCCTGGT	AGTTACATAT	TGCCCCCTCAA	CAGAATTCCT
177001	CTTCTTCTGT	TTCCCATAAAC	CTATTTTGCA	AGGATCAAGC	CCCTGTTATT	TCTTCAACTT
177061	CAAGGTGGCA	TATAAGCTTC	TAAATCCAC	TGGGATATTG	GTACTATGTG	CATGAGGAGA
177121	ACCACAGAGT	AATTAAATTG	TAAAGCCTTT	TATCTTATGA	ATCTGCCTTT	TTTTGTGTTT
177181	ATTTTTTCAGC	AAAACCTTCCA	AGGGCAAAGG	TATAAAACAA	AAATAAAATT	CTAAAGCCCC
177241	CCAACCATCT	GAATAGACTT	TCTCTTCAGT	CAGGCTTCTT	AAAATGTAAC	CTGAAAGACT
177301	GGCTCAGGCC	ATTAAGGGAA	GTGGGGGTG	AACATGCCTC	ATTATTCCTC	TCTGGCATTAA
177361	ACATCAACAC	AGCTTTTAAG	TCTGATAAGA	AACATTTTAC	AACCTATTCT	CTCTGAAGCC
177421	TGCTAGCTAA	AAACTTCATC	CCATAGTACA	ACTTTGGTCT	TCACAACCTG	TTATCACAAC
177481	CTAGTGCTCC	TTTCTATTAA	TCCCAAATCT	TTATACAAAC	TCAACCAATT	GTCATCACCT
177541	CCACCCCACT	CCTCCGCTGC	TTCCAGTTGT	CCCGCCTCTC	TGGACCAAAC	CAGTGTACAT
177601	TTCTTAAACG	TATTTGATTG	ATGTCCCATG	CCTCCCTAAA	ATGTATAAAG	CCAAGGTGCA
177661	TCCCAACCAC	CTTGAGCGCT	TGTTCTCAGG	ACCTCCTGAG	GGCTGTGTCA	TGGGCCATGG
177721	TCACTCAAAT	TTGGCTCAGA	ATAAATCTCT	TCAAATGTTT	TACAGAGTTT	GGCTCTGTGC
177781	ATGACACAGA	TGACTGCTTC	ACTGAAGCCT	GCTCTGGAAG	TGAGTGGGGG	TTTTGCAAGG
177841	ATAATTTTCC	CCGGATAGCC	CCAGAAGCAG	CTAGTAATAA	TACACTTAAA	GGTAGCTAAA
177901	ATGCATTGAA	CACTTGTTTT	GTGCCAGACC	TATGTCAACA	TTTGCTTTGT	GCCAGGCTTA
177961	TGCCAGTACT	CCTGATTTGT	TAATACATTC	TAAATAAAAA	TTCTGGAGTT	TCAAATATAA
178021	TAAGTAAAAA	ACAGAAAAATA	AATAAAAAATA	TATAATAACT	GAAATAAAAA	TTTACTAAGG
178081	CTGGGGATGG	TGGCTCACTC	ACACCTGTAA	TCCTGTTACC	GGAAAGGGGT	CCGTCCAGAT
178141	CCAGACCCCA	AGAGAGGGTT	CTTGGATCTC	ACACAAGAAA	GAATTCGGGC	GAGTCTGTAA

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178201 AGTGAAGCA AGTTTATTAA GAAAGTAGAG GAATAAAAGA ACGGCTACTC CATAGGCAGA
178261 GCAGCTCTGA GGGCTGCTGG TCGCTCATTT TTATGGTTAT TTCTTGATTA TGTGCTAAAC
178321 AAGGGGTGGA TAATTCATGC CTCCATTTTT TAGACCATAT AAAGTAACTT CCTGACGTTG
178381 CCATGGCATT CGTAAACTGT CGTGGCGCTG GTATGAGCAT AGCAGTGAGG ACGACCAGAG
178441 GTCACCTCTCA TCGCCATCTT GGATTTGGTG GGGAGCAGTG AGGATGACCA GAGGTCACCTC
178501 TCATCGCCAT CTTGGATTGT GTGGGGTTTA GCCAGCTTCT TTACTTTTTT CTTTTTTTTT
178561 TTTGCCCAGG CTGGAGTGCA GTGGCACGAT CTCAGCTCAC TGAAACCTCC AATTTCTGAG
178621 TTCAAGCGAT TCTCGTGCTT CAGCCTCCCA AGTAGCTGGG ATTACAGGCA TGTGCCACCA
178681 CACCCAGCTA ATTTTTTATA TTTTTAATAG AGACCGGGTT TCGCCATGTT GCCTACGCTG
178741 ATCTCCAACCT CCTGCGCTCA AGCCATCCAG CCACCTTAGC CTCCCAAAGT GCTGGGCTTA
178801 TAGGTGTGAG CCACCCACC TGGCCTAGCC GGCTTCTTTA CTGCAACCTG TTTTATCAGC
178861 AAGGTCTTTA TGACCTGTAT TTTGTGCCCA CTGCCTGCCT CATCCTGTGG CTTACAATGC
178921 CTAACCTTACA GGAATGCAG CCCAGCAGGA CTCAGCCTTA TTTCACCCAG CTCCTATTCA
178981 AGATGGAGTC TTTCTTGTTT AAATACCTCT GACAAGCCCA ACACCTTGGG AGGATGACAC
179041 AGGAGGATTG CTTTAGCCTA GGAGCTCAAG ACCAGCCTGG GCAACACAGT GAGACCCCAT
179101 CTCTAAAAAA AAAAATACAA AAAAATTAGC CAGGCATGAT GGTGTGTGCC TGTAGTCCCT
179161 GCTACTCAGG AGGCTGAAGT GGAAGATGG CTTAGCCCA GGAATTCAAG GCTGCATTGT
179221 CAGAGGCATT TGAACCAGAA TGACTCTATC TTGAATAGGC GCTGGATAAA ATAAGGCTGA
179281 CACCTGCTAG GCTGCATTTT CAGTATGGTTA GGCATTCTTA GTCACAGGAT GAGATAGGAA
179341 GTCAGCACAA GGTACACATC ACAAAGACCT TGCTGATAAA ATAGGTTGTG GTAAAGAAGT
179401 TGGCCAAAAC CCATCAAAAC CAACATGGCC ACCAAAGGGA CCTCTGGTTG TCTTCACTGC
179461 TCATTATATG TTAATTATAA TGTATTACA TGCTAAAAGA CACTCCTACC AGCATCATGA
179521 CAGCTTACAA ATACTGCGGC AATATCTGGA CTTTACCTTA TATGGTCTAA AAGGTGGAGG
179581 AACCCTCAAT TTTGGGAATT GTCCACCCCT TTTTGGGAAT GCTCATGAAT AATCCACCCC
179641 TTGTTTAGCA CATAATCCAG AAATAACTAT AAGTATGCTT ATTTGAGCAG ACCACGCTGC
179701 TGTTCTGCCT ACAGAGTAGC CATTCCTTTA TTTCTTACT TTCTTAATAA ACCTGCTTTC
179761 ACTTTACTGT ATGGACTTGC CTTAAATTCT TTCTTGTTG AGATCCAAGA ACCCTCTCTT
179821 GGGGTCTGGA TCAAGACCCC TTTCTGGTAA CATCTTCTG GTGACCACGA AGGGACAATA
179881 CTGAGGAGAC TCTGAAGCCA AAGGAAACAG ACTACAGCAC CAACTGGCTG ACTTTGGGTA
179941 AGTGGTGGAG TCCCCGGGTA AAGGATAGGA TTGGGTTAGA GGTGCAACTT AGGGGAGATA
180001 GGGTCTCTCC TAAGACAGAG AGGGTTTCAG TCCGCTCTTA ATAAAGGGCA AGAATGCTTG
180061 ACCGAACCTG GGTGTGAGAC CCAACTTAGG AAGGCTACAG TCCTTAAGAT TTAAGGGGTT
180121 AGAGGCCCTT CTCAGTAAAG TCTCTCTTGG TTA AAAACGG ATTTAGCATT AGGGGATGTT
180181 AACTGCTATT CTGTTTGTAT TAATCTTCCC TGTGCTCTTT GCTGACAGCT ATGGGTGACA
180241 GGATTAGGCA TGTACAGGAT CACGGGACAT TGGGAACCTT TCTTCTCTCC AAAAGGGGAA
180301 GCTTGACAGC TGATAGGACT TTTGGAAAG ATCCCTTTCG TATGACAAGC AGCCCGCTGA
180361 ACTTTTGATT CAGTGTGCT GCAATGGGTG GGTCTTTCTC TGGCCTCTGT GAACCTCTCA
180421 CCTTCCCAT CTACCCACAG GCAATGCTTT TCTCCCTTTC TCTCTTTCT CTTTTCTGTC
180481 TTTTCTGTTA CTTGAGACAA CCATCTTGCC CAGAGACCAT ATGTTGAAAC TCCTGGTCAG
180541 AAGTTTGATT AAAGATGAAA GGGCTATCT GGGGGCAAGT TTGAGCCTTC CCAGTTAGAT
180601 ATTGGGTGCT AAGTGGAGTG GCCAATGTCT ATGTTTGTG ACATGTATAT TGCTCTGGCT
180661 GAAATGGAAA ACGTTAATTT GGTACTTTA TGTGGCCATT GGGCAGCATC TTACAAAAGT
180721 GAGAGACATT TATTTGCCTG TGGTTCCATG AAACAGAAAA AAGTTGGTTT TCTTTTGTGT
180781 CGTAGCTTGG ACCCAAGGGC TTTGCAGTGA GCAAGGTTGC TAGTGCTGCT CAGTGAAAGA
180841 GAACCCAGAA ACCTGGCATG CCAGCAAAAG GGTAAAGATT TCTTACCAGT CAGGCTTCTG
180901 GCCTCTCTCT CTTAGTGAAA ACTGAATGAA TGGTAAAAAT CACTGTTTAT CACCTCTGTA
180961 AAGTTTGTAT TAATGGGAAC AAGGATTGT GGGGCTAGTC TTAAGCTGTA ATGAATCTGG
181021 TATACTTTGT GATATCAATT TGTCTTCTG TATTACTCTG TCATAAAGAG GAATATGGTA
181081 GGATAGAACA TGGGCTCAGG ACTCCATAAG CCTGCTGTTT AAGCCAGCCC AGTAAACTGG
181141 TCCGTTGCAA AGTTTATTAC AGGTCCTTGG AAAAAAAAAA AAATAAAAC TGGATGAAGT
181201 TTCTTCTCTA TCTTGTTTTA TGTCTTTGG AGCTTCACCT TGTAACCACG TGGCGGTACT
181261 TTCTCTTGGT CTCTGCCATC CAGGGAACAG GAATTTTGGG GTTTATGTAA TAGTTAACTC
181321 TAAAAATTAT CTCAAGCCAT TGCAAGCTCA AAATTGGCTG CTCTGGACCC CTTCTGGGAA
181381 GGGCAATGGA AACTAACCAG TGTGTAGCT CAGCAGCTAA GGATTGTGCA TTTTATAATG

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181441 GCGGCCAAGG TTCAATCCTG GCTTAGGGAA TGAGTACTTT CTGATTGATA TCTGTGTGAC
181501 CTTTACCATT TGTTGATTCT GTTCTCTTCC CCTCCACACA CTGTCCTGAG TTTTCCTCTC
181561 TCTGAGAACC TGGGAGATTA TCTTTGGTAA AGTTCAAAAG CCAGAAATAA TGGCCGTGTG
181621 GGATGGCTAA AGTTGAGTAA TAAGAACTT AAAAGGACTC CTTTTTTTTT TGCTTTAGAG
181681 TGCTATGGTT TATGGTTAAA AGCTTAATTA AAAGTGGATA TTCAATCTCT AAAAGCCTGG
181741 GACTCCTTGG GAAAAGCAGA GGAGGCACCA CAGACCCCAT TTTGGGAAAA CCTCTGTTTT
181801 CCTCATGAAA CCCCAGGAAC TGAAGTGGTA TAGATCCTTC GCAAAATCTA AGGCTCTGTT
181861 TGGCTTTGCA TTATGTTATC TGATGTTTTT GACTTTTGGG GGTATCAGAA ATTACTTTGC
181921 ATTATGAGGG AGATCTGGTG TGTAAATACC AGGTAGGAAA TATACTTCTG GGGATAGCTA
181981 AAGGCAAATA TAGGTGAATA CTTGGCTATT TGCACTTTGT GATCACAAGA AGCATTCTCT
182041 TGACTACCTA GAAGGTATGG AAATGTCTCC ATCCCCACCG AGAGATAAGA TTCCCAGGGG
182101 AGATGGCTGA TCCCCAAAAA GAGGGCTGAT TCCCTCTTTT GGGATCCAGG ATCTGGTATA
182161 AAAATGGGAC CCTGGCCAGG CACAGTGGCT CACGCCTGTA ATCTCAACAC TTTGGGAAGC
182221 CTCAGAGTTA TGAATGTCTC ACCATACTGA CACTTTGTGA CTGAGCTCCT CTCTACCCTG
182281 GACACAAGAG ACCCTAATAA TTAGACAGGA ATATCATTGC CCCTATTAG TCTGAAGAAG
182341 TTATAGAAGA CGGATCTTTA TCCCCTGCA ATCCTTAGGA TTAAGGGTTC CCTGGTAAAA
182401 GGGAGTGGGA AAATATGTCA GAGGCATTTG AATCAGAGTG ACTCCATCTT GAATAGGGGC
182461 TGGGTAAAAA AAGGCTGAGG CCTGCTGGGT TAGGTTAGGC ATTCTAACCA GGAGTTTAGT
182521 CACAGGATGA GATAGAAGGT TGCACAAGGT ACCCGTCACA AAGACCTTGC TGATAAAATA
182581 GGTAACGGTA AAGAAGCCAG CTAAGCCCA CCAAAACCAA CATGGCCACA AAAGTGACCT
182641 CTTGTCATCC TCACTGCTCA TATACACTAA TTATACTGCA TTAGCATGCT ACAAGACACT
182701 CCCACCAGTG CCACGACAGT TTACAAATAC CATGACAACA TCTGGACGTT ACCTTATATG
182761 GTCTAAAACG GGAAGAAGCC CTTAGTCTCG GGAATGTGCC ACCTCTTCC TGAAAAATTC
182821 TTGAATAATC CATTAGTTTA GCACATAATC CAGAAATAAC TATACGCTCG CTTATTGAG
182881 CAGTCCATAC TGCTGCTCTG CCTATGGAGT AGCCATTCTT TTCTTTTATT TTTATTTTTT
182941 AGATAAAGAC TCGCTCTGTC ACTCAGGCTG GAGTCTGGAG TGCAGTGACG TGTTTTGGCT
183001 CACTGCAACC TTCACCTCCC GGGTTCAAGC AATTCTCCTG CCTCAGCCTC CCAACTAGCT
183061 GGGACCACAG GTGGGTGCCA CTAAGCTGG CTAATTTTGT TATTATTAGT AGAGATGGGG
183121 TTTCGCCATG TTGGCCAGGC TGGTCTCGAA CTCTGGCCT CAAGCGATCC ACTTGCCTTG
183181 GCCTCCCAA GTGCTAGGAT TACAGGCATT ACCCACTATG CATGACCCAT TCTTTTATT
183241 CTTAACTTTT TTTTGTTTTT TTGAGACAGA GTCTCACTCT GTCACCCAGG CTAGAGGCTG
183301 GAGTGCAGTG GTGCGATCTT GGTCACTGC AACCTCTGCC TCCTGGGTTT AAGCGATTCT
183361 TCTGCCTCAG TCTCTGAGG AGCTGGGACT ACAGACATGT GCCACTACAC CCAGCTAATT
183421 TTGTATTTTT AGTAGAGACA GTGCTTGCC ATGTTTGTC GGTGTGTCTC GAACCTCTAA
183481 CCTCAAGTGG TCTGCCTGCC TCAGCCTCCC AAAGTGCTGT GATTACAGGC ATAAATCACT
183541 GCGCTCGGCC CTTCTTTACT TTCTTAATAA ACTTGTTTTC ACTTTACTGT ATGGACTAGC
183601 CCCAAATTCC TTCTGTGTG AGATCCAATA ACCCTTTGT GTGTGAAAGA ATGTATTGCT
183661 GCTGTTTCCG CTGGAGCAAG CTGGAGCTCA TGCTGCTGCT CAGACTGGAG CATGCGTGAT
183721 CTGTGATCCC AGTAAGAGGA TCATGGTCAC TCCAGCCTGA ACGACAGCAT GATATCTCAT
183781 CTGTAAGAAA AAAAATTAC TAGAGGGCTT TAACAGCAA TTTGAGCAGC AAAAAGAAGT
183841 AATCAGTGAA CTCAAAGATA GGTCAATTGA AATGATCTAC TCTGAAAAAC AGAAAGAAGA
183901 CAGAATGAAG AAAAAGAAAT AGAGCCTTAG AGACAGGGGA TACCATCAAG CATACTAATA
183961 TATGCATAAT GGGACTCCTA GAAGGAGAAA AGTGAGAGGA CAGGGAGAGA GAATGTTTGG
184021 AGAAATAATT TCTCAAAGCT TCCCATGTTT GGCAAAAAAG CATTAAGTTG CATACATATT
184081 TTAGGAGCTC AATGAATTCC AAGTAGGATA CACTCAAAGA GATCCATACC TAGACACATC
184141 ATAATCAGAT TATCAAAAGA TGAAGAAGAT GAATCTTGAG AGCAGAAAGA AAGGAACAAT
184201 TCATCACATA CAAATAGTAC TCAAAAGATG TCTGGAGTAG GTATACTAAT ATCAGACAAA
184261 ATAACTTTA AGATAAGCAT TGTTATAATA AATAAAGAAA GGTATTTTGT AATGATAAAA
184321 GTGTCAATT CATAAGAAAA CATAACATTA TAAACATACA TGCACCTAAC AACAGAGCCC
184381 TAATATTCAT GAAACAAAAC TGACAGAATT GAAGGGAGAA ATAGAAAATT CGACAATAAT
184441 AGTTGGAGAC ATCAATACCT CACTAGTTAG ACAAGATCAA CAAAAAATA GAAGACTTAA
184501 CACTTGAAAA CACCTAACCT GACCCTAACA TAAATCTATA GGTCACTACA CCCCAAAACA
184561 GCAGAATAAA CATCCTTCTG AAGCTCACAT GAAACATTTT TCAGGATAGA CTGTATATTA
184621 CTTTCATGAA TAAGTCTCAA TAAATGTAAA AGGACTATAA TAATAGAGTA TATATTCTCT

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184681 GACCAAAGTG GAATGAAGAT AGAAATCAAT AACTAGGCTG GCGGTGATGG CTCACGCCTG
184741 TAATCCCAGC ACTTTGGGAG GCCAAGGCGG ACAGATCACG AGGTCAGGAG TTTGAGACCA
184801 GCCTGACCAA CATGGTGAAA CCCTGTCTCT ACTAACAAAA TACAAAAAATT AGCCAGGCCT
184861 GGTGGCATCT GCCTGTAGTC CCAGCTACTC GGGACACTGA GGCAGGAGAA TCACTTGAAC
184921 CCAGGAGGCA GAGATTGCAG TGAGCTGAGA TCGCGCCACT GCATTCCAGC CTGGGAGACA
184981 GAGCGAGACT CCGTCTCAAA ATTAAAAAAA AAAAAGAAAC TAGAAAAATA AGAACAAATC
185041 AAACCCAAAG CAAGCAAGAG AAAATGAAA AATTTCAAAG CAGCCAAGAA CAAAAGGCAC
185101 ATTATGTACA GAAGAACAAG TGTATAGATC ACATATTTCT CATAGACACA ATATAAGCAA
185161 AAAGACAGTG GAGCAAAATT TTTTAGATTA ATGAAAGACC TACAATTCTG TACCAAGCAA
185221 AAAAATCCC CCCAAATGAG GGTGAAATAA GACAATTTAA TACAGAGAAA AGAGGAAGGA
185281 ATTTATCTAG TCATATGTGA GAGTTTTATG ATACATTTTG TACTGTATAT GTGGATGTTT
185341 TCTATTTTCAT TTAAAAAATC AACCGTGCAA TTAAATGGTA GATTGTCTTG CTTCTTTTGT
185401 ATTGACACAG TCATTAACATA AAATATTGTA GTATTTTTTT ATCTCCCTGC CTAAAGGCAA
185461 TAAACATCTA ATCAGCAGAC TAGAACAATA AAAAATATTT TTTAAAAGTC CTTTAGGCAG
185521 AATGATAAAA GTCCTTAGG CATATTGAAA TTCCTATTTA TACAAAGGAA TAAACAGTAC
185581 TAGAAATTGT AACTATGTGA GTAAACAGAT AATATTTTTT CTCCATAAAA TGTGGTTGAC
185641 TATTTTCACA AAAATAGTTA ACAATGTAAAT GTGTGATTTA TAGCATTTAA AAGTAAAAACA
185701 GGCCGGGCAC AAAGGTTTCGT GCCTGTAATC CCAGCACTTT TGGAGGCCGA GCGGTGCAGA
185761 TCACTTGAGG ACAGGAGTTC AAGACCAGCC TGGCTAACAT GGCAAAACCC CATCTCTACT
185821 AAAAATACAA AAATTAACCA GCGTGGTGG TGCACGCCTG TAATCCCAGC TACTCTGGAG
185881 GCTGAGGCAC AAGAACTACT TGAATCCAGG AGGTGGAAGT TGCAGTGAGG CAAAATTATA
185941 CCACTGTGCT CCAGCCTAGG CAACAGAGCT AGACTCTGTC ACACACACAC ACACACACAA
186001 AAGAAAAGTG TATGACAACA ACAGTGCAA AGAAGTGGAA ATGAAAATAA TGTTATTTTA
186061 TATAAGTGGT ATACTTTTAG ATGAATACG ATAAATTAAT GATGTATCT ATAACTCTA
186121 AGGCAACCAC TGAAATAATG AAACGAAGAA TTATGGCTAA CAAGCCACAA AAAGAAATAA
186181 AATAGAATGA GAAAAAATAT TTAAGTTGTT CAACAGATGG GAAAAAAAAG AGGAAAAAGA
186241 GAACAAAGAA CAGATGGGAC AAATGGGAAA GTAAATAGCA GATGATAGAC TTAATCTAC
186301 CCATATAGAT TATCACACTT AAGGTAAATG ATCTAAATAC TCTAATACAA AAGCAGAGGT
186361 TGTCAGATTG AATTAAAAAA ACAGACAACA AAAAAAAAAG GCAAAAAAG AGCCACAACA
186421 TGCTGCCTAC AAAAAATTCA CTTTAAATATA AAGACACAAA TAGTCTAGAA CACCATCACT
186481 TTTAACCTTA TTTACTCAAA CCTCCTGATC CCTATTTATT TATTTATTTA TTTATTTATT
186541 TATTTATTTA TTTATTTATT TTTGAGACAG AGTCTGACTC TGTGCCCCAG GCTGGAGTGC
186601 AGTGGCACC A TCTAGGCTCA CTGCAGCCTC TACCTCTCGG GTTCAAGCGA TTCTCCTGCC
186661 TCAGGCCCTC CAAGTAGCTG GGAATATAGG CACATGCCAC CATGCCAGC TAATTTATTAT
186721 ATTTTATAGTA GAGACGGGGT TTTGCCATGT TGGCCAGGTT GGTCTCAAAC GCCTGACCTC
186781 AGCCTCCCAA AGTGCTGGGA TTACAGGCGT GAGCCACAGC ACCCAGCTCC TCTTCATTTA
186841 TTCTTGCTAC GCTTCTCCA ATCCATTTTG TGCAATTTGAT GATTTTGCCA GTAATCTCTT
186901 TATTTTCTG GTAAATTTAC TTATGGGTCA CTGAGGACTG GGATGTCTT TCTTCTAGAG
186961 GGGGTTTGTG TCTGCTTTTG CCAGGAAGCT GGGGTACCAC CAGTCAAGTA TTACTTTAAA
187021 CTCAATTCAT GAATTGAGAC TTTTTTTTTT TTTTTTTTTT TTACGCAGAG TCCTACTCTG
187081 TCACCCAGGC TGGAGTGCAG CGGTGTGAAC ATGGCTCACT GCAGCCTCAA CCTACTGAGC
187141 TCAAGCAATC CTTCTGCCTC ACCATTCTGT ATAGCTAGGA CTACAGGTGT GTGCCACCAT
187201 GCCTGACTAA TTTTTTAAAT ATTTTTTTTA GAGATGGGGC TCACTTTGTT GCCCAGGCCA
187261 GTCTCGAGCT CCTGGGCTCA AGTGATCCTC CCACCTTGGT CTCCCAAAGT GCTGGGGTTA
187321 CAGGCATGAG CCTCTGTGGC TAGCCAAGAC TTTTATTTT TTAGCCTAAA TGTGTATAAA
187381 AGTTGGCTTG TGGTTACAAC TTATCAGGAT TGATGATCTC TCTCTCTCTC TCTCTCTCTC
187441 TCTGTCTCTC CCCACCTCTC TCACATCCCT TGCTCTGCTG AGAAGCAGAG CAAACATTCT
187501 AGCAGTTTCC AGAGAGTAGG ATGGGATTAC TTCTAGTTTA CTTTATCAT CTTTGGGAT
187561 CGCAGTATTA CTGGGAGAAC ACAAGTATCT CTTATTAGAC ATACCACCTT TGTAAGATCT
187621 GGACTTTTCAT TTTAGACTTT ATTTGTTTTT TACTATAAGC AATTTAAGTT ACAGATCTCT
187681 CTACACACTG TTTAAGTTGC ATCCCATGAA TTTTGATGTG CTTTATGTC ATTATTATAT
187741 AGTACAATGT ATTTTGTAAT TTTTGTGAT TTGTTGGAG AGATTGATTA ATTAGAATGA
187801 TGTTTAATTT CCAATATGT GTGTTTTTTT CTACATTCT TATTTTATT GATTTCAAT
187861 TTATTCTAC TGTAGTCAGA TTTAATAATT CATTTATTTT TATTATTTT ATTTTTTTAG

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187921 AGACAGGGCC TTTCTGTGTT GCCCAGGTTT GTCCCAAACCT CCTAGTCCCA AGCAGTTCTC
187981 CTGCCTCAGC CACCCAAAGT GCTGGGATTA TAGGCACGAG CCACCCGTGC ACAACCAACA
188041 ATTCAATTTAA AAAGTGGGCA AGTGAACCTGA ACAGACATTT CTCAAAAGAA GGCATACAAT
188101 TGGCCAACAA ATATATGAAA GAATGCTCAA CATCACTGTA TTAGTCTGTT TTCATGCTGC
188161 TAATAAAGAC TTAACCTGAG ACTGGGGAAT TTACAAGAGA AAGAGGTTTA ATGGACTTAC
188221 AGTTCACAT GGCTGGAGAG ATCTCACAAT CATGGTGGAA GGCAAGGAG AGCAAGTCAC
188281 ATCTTACATG GATGGCAGCA GGCAAAGAGA GAGCTTGTGC AGGGAAACTC CCGTTTTTAA
188341 AACCATCAGA TCTCGTGAGA CTCATTCACT ATCATAAGAA CAGCATAGGA AAGACCCGCG
188401 CCATAATTCA GTCACCTCCC ACTGGGTTCC TCCCAGGACA CATGGGAATT GTGGGAGTTA
188461 CAATTCAAGA TGAGATTTGG GTAGGGACAC AGCCAAACCA TATAAATAAC TAATCATCAG
188521 GGAAATGCAA ATCAAAACCA CAATAAGGTA TCATCTCACC CCAGTTAGAA TGGCTATTGT
188581 CAAAAAACA AAAAATAACA AATGCTGGTG AGGATGTACA GAAGAGGGGA CTCTTATGTC
188641 CCACTGGTGG AAATGTCAAT TAGCATAGCC ATTATGCAAA ATAGTATGGA AGTGAGGTAG
188701 GTTACATAGG GTGGTCACAG CCTCCCTTGA AAGGAAACAA GAACTTGTC AAATTGATGG
188761 AGAGAACAAA TCTCTTGACA TTACACAAAC TGCATCTGGG GCTAGTGGTT AGAATATCCT
188821 CAGTCAAGGA GGTAGAAGAG CAGGAGGGAA AATCCCTAAG TTCGTGCAAG TGCAGAAACC
188881 CACAAGCTGT GTTCTCAGGT TGACATATAC TCATTTTAAT AGTAAGAAAC ACACCCTTGG
188941 GTAGAGAATT AAAATGCTAA TAATACATGT GATGTATGTA CTAGCGTGTA TGGCAATATT
189001 GCATGCACAT TCAAGAGACC ACCCAAACA TATTTAACA CAATGCCCAT TCCCACCCCC
189061 TCATGGATAA TCACGTAGGA CTCCATAAC GGGAGTTTCT TCAGTGTCAA TTGGTGCTGA
189121 AGTAGCCGAC CCGACTCTG CTATCAGCGT GTACTTTCAC CTTGCAATAA ACTCCTTTGC
189181 CTACTTTTAC TTTGGACTGG CTTTCAAATT CTTTTGTGCA GGGAAATCAA GAATCTGAAC
189241 CAGCCTACTG ACAACAGAGG TTTCTCAGAA ACCTAAAAAT AGATCTACCA GATGAGGCTG
189301 AAAATCTGCT ACTGGCTATT TATCCAAAGG GAAGGAAATC AGTATACAAA GAGACACCTA
189361 CATCCCCATG TTTATTGCGT CACTCTTCAC AAGAGCTGAT ATATAGAGTC AACCCTTAAT
189421 GTTCATTAAC AGACAAATGG ATAGAAAATG TGGCATATAT ACACAATGAA ATACTATTTG
189481 GCCATGAGAA GAATGCAATC TTGTCATTG TGGCAACGTA GATGAACTG GAGAACATTA
189541 TGTTAAGTAA GATAAGCTAG GATTGGAAAG ATAAATACTA CATGTTATCA CTCATATGTG
189601 AAAGTAGAGA AAAATTTTTA GCTCATGGAT TTAGAGAACA GAACTGTGGG TACCGGAAGC
189661 TGGGAAGGGT AGCAAGGAGG GGAGGATAGG GAGAGGTTGG TTAATGGTGA CAAAATTACA
189721 GCTAGATTGT AGAAATGAGT TCCGGTGTTT TGCACCATTG TAGGGTGCAT ATGGTTAACT
189781 CTCATTTATT GTATATTTT AAAAAGCTAG AAAAGAATTT TGAATACTCA CAACAAAATA
189841 AATGATAAAT GTTAAAGTG ATGGATATAC TAATTACTCT GATTTGATTA TTACACATTG
189901 TGTACACATA TAAAAATATC ACTCTTTATC CCGTATATAT GTACAGTTAT TATATGTCAA
189961 CTAAAAATAA AAGAAAAAAA GAATATGATC TATCATGATG TATATATCAT GTGTACTTGA
190021 GCAAAATGTG CATGCAGATA TTGTGTATAA TGTTCTATAA ATCAATTAGC TCAAGATAAT
190081 AGATAGGATT GTTCAGATCT TCTGTGCTT TACTGATATT TTGTCTAGTT ATTGCATCAT
190141 TACCAAAAAA AGGGTGTTAA ACTCTCCAAA TGTGATTGTA GAATTGTCTA TTTTGTCTTT
190201 TCTTTTCCAT TTTTACTTTA TGTATTTTGA AACTCTGTTA TGACATTTTG CTATGTATTT
190261 TAAAACTTCG TTATGTATTT TGAAACTCTG TTGTTAGAAT CATACATTTA TGATTATTAT
190321 GTTTTCTTGA TGAAATGACA CTTTCTATT GTCATTGTTT TTGTTTTTTC TGAAATGGAG
190381 TCTCACTCTG TTGCCCAGGC TTGGAGTACAG TGGCACAATC TTGGTTCACT GCAACCTCCA
190441 CCTCCTGGGT TCAAGCGAGT CTCCTGACTC AGCCTCCAAG TAGCTGGGAT TACAGGCATG
190501 TGCCAGCATG CCAAACTAAT TTTGTATTTT TATTAGAGAC AGAGTTTCAC CACGTTGGCC
190561 AGGCTGGTCT CGAACCTCTG ACCTCAGGTG ATCCGCCAC CTCGGCATT TTTATTTATT
190621 TTATTTTTTT GAGACAGAGT CCACTCTGT CACCCAGGGT AGAATGCGGT GGTGTGATCT
190681 TGGCTCACTG CAACCTCCGC CTCCTGGGT CAAGCAATC CCATGCCTCA GCCTCCCGAG
190741 TAGCTGGGAT TACAGGCACA TACCACCATG ACTGGCTAAT TTTTGTATTT TTAGTAGAGA
190801 TGGGTTTTTT CTATGTTGGC CAGGCTGGCA ACTGACTCCT TTAACAATAC AAAATATCAC
190861 TCTGTCTCTG GTAACACTCT CTGTCTTAAA CTCTATTTTA GCTGTTATTA TTATGCCAT
190921 TTTAGTCTTT TTATGCTTTC TGTGTCATA GTGTATATAT TTTAATATGT TTATCTCAA
190981 GTTATCTGTG TTTTATATAT TAAGATGTTT CTCTCTAGC CAACGTGTTT GGTCTTGCA
191041 TTTTAAAGTC GATTCTAACA ATCTTTGCCT TTCAATTGAA ATATTTACAC CATTAACATC
191101 TAACATTAAC ATTTATTTTT CTTTCCACAG TACACTGGCT AGCATCTCCC ATATAATATT

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191161 GAACATAAAG TGTGATAACT GACATCCTTA TTTCATTCTT ACTCTGAGTG GAAAGGGCAG
191221 GGGTGGAGAA AGCATTCAAC AATTGCCAT AATTATAATG CTTTTTGTTA CACTGTTTTT
191281 TTCTGCATTA AAAAATATCA TTACATTTTG CATGAATTAT TAGGAGAAAA TATTTTCCAA
191341 TTTTCTGGA AAATGCCATA ACCACGTCTC TCAATTTTGT TTCCATCTTT CTTCACATT
191401 TTACATAACC TACATAAGAG ACACATTATC AAGTATATTT TACATGGCTT CTCAGTGTCT
191461 TCTCTGTCTG CTAACAGGTT TACCAAGAGA TGGCACTCTT GTATTCTGG TGGCTATGTC
191521 CATATCGTTT TGCCTTTAAG ACAGCGTAAC TACTTCTTTC ACCAGTATTA AAGACATGTA
191581 CATTTGATCT GGTCTTGTG GATGATTTTA AATGACTCAA GCTAATAATC CTAATTTTAC
191641 CTAACACTC CATTATTTTA AAATGTATTC CTTTATGCCC ACAATAAACA TTTATTGACA
191701 TTAGGCTGGA CATTAGGCTT CTCTATGGCA GACATTAGGC TGGACCCTAG CCATATATCT
191761 ATTGAGGGA AAAAATTAT TTTCTATATA AGTTTCCAGA AAGCCAAGAT GTGTTTTTAA
191821 AACAAACAA AACATTACAT TCTAATGCT GTAACAAGAT AAGAAAAAGT GTTGAGGCTG
191881 AGAGAAGAAC AAAGCAGCAA GCAACTCTG GAAGGACCAC TGCTGCAGAG GTAATAACTG
191941 GTGAACCATG TTTTGGAGAA GGAAGGTC ACCAAGAGAA GGAGGGGTC CAGGGTGTTC
192001 AGAAAGATTG CATGCATAAA GATCAAGGGT AATAAAAAAA ATTCCGTATT ATGTAATGT
192061 GAAGTTCCAG GACCATGAGC TTGGAGAGCA TGAAGTACAG GAGGAGGGT GGTTCCAAAT
192121 AAATCTGGGA ATGAAACAGT GAAGCCTCTG GCAGAACTCA CATCTCTTTC CTCCCCTCTT
192181 CCTTGCACAT TCCCTTTATG GAGTAATTGC AGGGATGGGA AAAGTTCAAA ACCACCCTG
192241 AGCCTAGGAA GTGCTAGGGT AAAGTGGAGA ATGAACCTGC GTGATTGTCT CATCCTAAC
192301 TAGGTTCTTC TAGGAGAGCC CTTCCCATTA AAATCTGCCC TCCTCGAAGG GGCCAGACA
192361 GCCTAAGCTC ACCTCCCAA GACCCCTTAC TTGCTGACTG AATCTGATTC CACCCAGACA
192421 TGGCCTAAAA CCCTTCCATA ACTCTATAGC CAAATTCAAT TTTAGACAGG CCTCATACCA
192481 ACCTTTCTTC CTCTAAGTCT GCCACCCTAG GCAATTCTCA ACATTCTCTA CACACTTTGG
192541 GGCCATAGAC GTGCTACCAA GTCTCCAGAC CTAGACCTGA TGGAGCAGTG CTGTAATGAG
192601 ACGACCACTG GCCTTTGAAC CAGACCCTTC TCTGTGGCTC CTATGCATCT CCAACCTGTT
192661 TTGAGCACTG CTGCCAAGAC ATCTTTGGCA CTTTGTGTG AAGTTTTTAA AGTGAACATA
192721 TCTACAAAC ACCTAACCTT TAAAAATCA TTGTCATTC ATATCATGAA AGATAAAGAA
192781 AGGCCAGGAA ACTGTTCCAG GTTAATAGAG ACTAAAGAGA TAGCAACCAA ATGCAATTTG
192841 TGATCCTGGA TTGAGGGGAA AAAGTGTGT CAGAGACATG ATTGGGACAG CTGGTAAAT
192901 TTGAATTTGA ATTTAAAGAT AAAGTATTGA GTAATATAGG AAGATGATTA TCTGCAACTT
192961 TCAAATGTTT CAGTAAGTAT ATATATATAT AAAGAGATAT AAAGACATAT AAATAAATGG
193021 ATAGGTAGAG AAAAAGCAA TGTATAATAT TAACAATCTA GGTAAAAAGT ATATGAGTGT
193081 TCTTTGTACT GTTTTCTGA TTTTCTATA TGTTTGAAT CATTTTAAAA TAAGAAGGTT
193141 TTTGGGTTTT TTTGTTTGT TTTTGTTTT TAGAGACAGC ATCTTATTCT GTCACCAGGC
193201 TGTAGCTCAG TGGCCCAATC ATTGCTCACT GCAGCCTCAA CTTCTGGGC TCCAGTAATT
193261 CCCCCTACCT CAGGCTCATG AGTAGCTGGT ACTTCAGGTG TGCACCAGT CACTCAGCTA
193321 ATTTTATTT TTTAAATTTT TGTAGAGATG GCATGTTGCT ATGTCACCCA GGCTAGTCTC
193381 AAACCTCTGC CCCCAGTGA TCCTCCCACT TTGGCCTCCC AAAGTGCTAG AATTATAGGC
193441 ATGAGCCACT GCACCCAGCC CCAAATAAAA AAGTATTTTA TTTTAATTAA CTAATTAACT
193501 TTGAGTCAGA GTTTCACCCT TGTCACCCAG GCTGGAGTGC AATGGCATGA TGTTGGCTCA
193561 CTGCAAACTC TGCTCCTGT GTTAAAGCGA TTCTCTTGCC TCAGACTCCT GAGTAGCTGA
193621 GATTACAGGT GCCTGCCACC ATGCCAGCT AATTTTTATA TTTTATAGT AGACGGGGTT
193681 TCAGCATGTT GGTCAAGCTT GTCTCAACT CCTGACCTCA GGTGATCCAC CCACCTCCGC
193741 CTCCGAAAGT GTTGATGAGC CACCACACC GGTCTAAAAA GTATTTTAAA ACCACAGTCC
193801 CACTCTACCT TGCTTACAC TACCAGGGGC TAGGATCACC CCATGTCTTC TAGGCTATGA
193861 GATAGAGGAA TCCAAGGAAG AAGATAAGCT ACTTGGTTCC TCTATAGGGT CTTGTGTGTG
193921 CTCTCATGTG CTCTCTCTCT CTCTCTCTCT CTCACACACA CACACACACA CACACACACA
193981 CACATGAATA CCAGAGCTAT CACTTTCCCA GTCTAGTACT CATCTCATCC CAAGGGTTTT
194041 GTGTTGTAGT GGTGTGCTCA TTTCTTTGTT TGTTTGTGTT GCTTGGATTA TTCTTTTCT
194101 CTTTTTGAG CTGAAGGGAG AATTTCCAGG CCAGCCCTTT GGCCATTAGA GTTACAGTGC
194161 CTCTATTGAG GCTTCATAGA GAGACCTGGG ATTCAGTAGT GGGGGGCTTT TATCCAGTTC
194221 AAAATAATGC ATTCTACCA AGATGTACTT TGAAATAAAA CAATACTAAA ACACAAATT
194281 TTATTTATGC TGAACATTGA ATCACTTTT TCTGTATTTT GTGTAGAAAG TTATACACAC
194341 ACAAACACAT TTGCTCCTGC TTTGTTTATT GGCCAGGGG TATGTTTGGT AATACTTCAT

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194401	CAGGCATGAG	TAGTACGTCT	TGGAAGGTGT	GGTCTAAAGC	CTAGACTCCT	ATCTGCTTCC
194461	TTCAGCATTTC	TCCAGTGTAT	CTGTCTATCTG	TCTACCTTAG	GATAGGGGTC	TCCAGAAGCTT
194521	CCATTACACAT	TTAGAAGAGG	GCAGCGGCTT	TCTATGGAAA	ATATGAACTC	TCATTTCATCT
194581	CTATTCCCTTC	TTCTAGCTAT	GGTCCAGCTC	AGCTGTTTGG	AATAAAGTAT	CTATATGAAG
194641	TCTGCGAATG	GTTCTCAGAC	TGGTTGAACA	TTAGAATCAC	CTGAGTACCT	TCTAAAATTC
194701	TTATTACCCA	GGGCATATCT	CAGAATGAGT	ACCGCAGGGT	AGGGATAGGA	TTAGGGATCA
194761	TGATCTCTGG	AGTCTGGTTT	AGGCACTAGT	GCTGTTTAAA	ACTACGTTCA	TGAGGTGGAG
194821	GTTGCAGTGA	GCCGAGATGG	CGCCACTGCA	CTCCAACCTG	GGCGACAGAG	TGAGAGTCTG
194881	TCTCAACAAA	ACAAAACAAA	AAAAACCAAC	TACCCTTGTTG	ATTTGAATGT	CCATCCAAAA
194941	TTGAGAACCA	TTAGGTAAGG	CCAAGCTGTA	TAATTAAAGA	GCAGTTTTCA	TTTGTCTGGT
195001	GTGGTGGCAG	CTTTTTGATA	AGGGAAGTAT	TGTTGCCATC	CACATACCTG	AGCCTCACTC
195061	CTGAGAACAC	TGGTGTGTAT	GTTGCTAAAA	TTCCCCAGGT	GATTCTGAGG	TTCTTCTCTG
195121	GATAAAAACC	ACTGACCCTG	GGAATGTACC	CACTGCCAAT	CTCCTGCGTA	AACCTTGGAT
195181	ACTGGGAAGC	CTACAGTTGA	AAATATTGGG	CTTGAGATCC	TGAAACAAAT	CTGTATTTC
195241	ATTAAGACTA	ATATTTGGTA	CAGTGCAGCA	AATCAAGGGA	ATTTTGGTGG	CTGAGTTCTT
195301	TTAGAACTTT	TGCATTGAAA	TAGGTTCAAG	CAGCAATAAG	TTAAACTAC	AACCTCAGCT
195361	AAAGGATTAA	AAGACACGTG	AGCTGGGTAG	GATGAGGTCT	AAGGTTGGGT	GTGGCGGCTC
195421	ATACCTGTAA	TCCCAGCACT	TTGGGAGACT	GAGGTGGGTG	GATCACTTGA	GGTCAGGAGT
195481	TCAAAACCAG	CCTGGCCAAC	ATGGTGAAAA	CCCATCTCTA	CTAAGAATAC	AAAAAAATTA
195541	GCTGGGCGAG	GTGCCAGGCA	CCTGTAATCC	CAGCTACTGG	GGAGGCTGAG	GGAGGACAAT
195601	CACCTGAACT	CAGGAGGCAG	AGGTTGTAGT	GAGCTGAGAT	CGCACCCTG	CACTCCAGCC
195661	TGGGTGACAG	AGCAAGACTC	CATTTAAAAA	AAAAATAATA	ATAATAACAA	TAATAATAAT
195721	TCAGACATAT	CCAGGCATCA	AACAGATACC	TGGGGCAGAT	GAATAGTCTT	GAGATTCAAG
195781	TCACACATGA	AATTTAGGTG	GAAAATGACA	TTGGAGAAAT	TTGAGATTAT	GATGAATGGA
195841	AATTTTTCAA	AGAGGAATTT	CAGGCTCTGT	TCTTGAGGGG	ATAGATGGAC	TTCCAACAGC
195901	AATAACACAG	GATTAATGAG	GACTTGGGAT	GTTACATAAA	TTAGAGATGT	TAGATGGATA
195961	AAGAGATAAA	AGTACTCTCT	CTAAGAACAT	GGGACCAGAG	ATAGGCTCAC	TTCTAACCAT
196021	CAGATATAAC	TAGCAGACTA	AACGGTCTAA	AAATAAAAAAT	CATGCCCCAC	TCCTGCTTAA
196081	GACATTTTAA	TTACTCTCAG	TAACTCTTCA	GTTTTTCTAC	TGTGTTATCT	TTAACTACAG
196141	GGTTGGTCTG	GGTGTGCAAC	ACAAGAAAGC	CTGGCATATA	CATGGATTCA	AGTGTATGCC
196201	ATGTGCAGGT	ATTCTTTCAT	GTACTATTTT	ATGTATTCTT	TTTACATCT	GTTTTTTCCT
196261	TCATTGAAGT	CAATGGCTGA	TATTAGATTG	TACTATTTCAT	GTGTACTAGT	TATATATAAT
196321	TGTTACAAAA	CAAATTAGCA	AAAACCTTAGT	GGCTTAAAGC	AACACACATT	TATTATTACC
196381	TAAGGTCTGT	GGATAGAAAT	TCTGACATGG	CTTAACTGGG	TTCCCTGCTT	CAAGCCTCAT
196441	GTGGCTGCAA	TCCAGGTGTT	GGCTGAGTCT	GAATTCTCAT	CAGAGGCTTG	ATTGTGGAAA
196501	TTTCCACTTC	CAAGCTCCCT	CAGGTTTGTT	GAAAAATTCA	GTTCTTTGCA	CCGGTAGAAG
196561	CTTCTTGATA	GAGGCTGATT	CAACTTCTAG	AGGCTGTCTG	CAGTTCTCTG	CACCCAGGGT
196621	GGAGTGCACT	GGAGCAATCA	TAGCTCACTG	CAGCCTTGAC	CTCCCAGAAT	CAATCTGTTC
196681	TCCCACCTCA	GCATCCTGAG	TAGCTGGGAC	CACAAGTGTG	TGCCATCACA	CCTGCCTAAA
196741	AAACAAACAA	ACGAAAAAAA	ACCCCCAGAG	AACCTTGTAG	AGACAAGCTG	GTCTGGAAC
196801	CCTGCGCTCA	AGCAATTCTC	CTGCCTTAGC	CTAAAAGTTC	TGGGATTATA	GGTATAAGCC
196861	ACCATACCTG	GCATATGGCA	AGTCTTGAGC	AGGACAAATA	CAGATGATTT	ATGTCTGTCT
196921	TCCATGGTAT	TCTAGGTTAT	TGTTGAGATG	GTCCTCTATT	GTCTTGTTCC	ATCTATTGAT
196981	TAGATAAAAC	GTTGTTCCCT	CTGTTATTTT	TCAACAGTAG	CTTTTATGTG	TCTCTCTTTA
197041	TCTTAAAAAT	CTAACCAAAG	AGCTGCTCTT	TTCTTGGTGT	ACTTTACCTT	TGGTTGATCC
197101	TTCTTAACCT	CTTCTTGCCC	TCTGGGGCCT	AAGATGAGGG	CTGTTATCAG	ATGTGAGTCT
197161	ATGGGAAAGC	AAGCAAGAGG	TTCTTCAGCC	TCCGTTGAGC	CTTAAATGTC	TAGGTAGAAA
197221	TCAGTCATGG	CCCTTCCAAT	GTGGTACAGA	CCAGATCACA	GAGACAGGGG	TCTCAGCCAA
197281	GGTCTTGTGG	CCTAAGCCTT	ATAGAAATAA	TGAGTGTTTA	CTTACTTGGA	GAACCTCCCTT
197341	GGATATCTT	TTTTTGTA	CCTGAGGCAA	CTTTTGGTGA	TTTCTTGATG	TCTTGGGAAT
197401	CTTGGTCTAG	AGCCATTTC	ACCCGATTTC	TTTTTCATGTC	AGTGGCATT	TGTGACCAGA
197461	TAGTAAATAA	GTTCTATGAT	GTTCACTCAG	AGAAATACAA	TGACTTATGA	TGCGAAGCTT
197521	CTGTGGTTCA	GCCCTTACTT	CATCTTCATT	CCCTCTTATC	TGCATCTGTC	TCTGTCTTGG
197581	GAACAAAAGT	CTGGCTTCAT	TCTATGACCC	CCACGTTGAG	TTTCTTAGTA	GCACCTTACTT

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197641	TTCAATTAGG	AGTGTCTCA	CTTCTATCCG	TCAGACATAA	CTAGCCGACT	AAACAGTCTA
197701	AATATAAAAA	TCATGTCCTA	CTCCTGCTGA	AAACATTTTA	ATTACTCCCC	ATCATTTAAT
197761	TTTTTCTACT	GGGTATCTT	TAACTTCAGA	GTTGGTCTTG	TGTGCAACAC	AAGAAAACT
197821	GGCATATACA	TGGATTCAAG	TGTATGCCAC	GTGCATGTAT	TCCTTCATGT	ACTATTTTCAT
197881	GTATTCTTTT	TCACATCTGT	TTTTTCCTCT	AAAATTTATT	TCCTTTTAAA	AATGAAAATT
197941	TTGCATTTGA	CTAAATTTGT	CAAATTTAGT	CAAATTTGTT	TAAAACCATT	TTTAAAATGT
198001	TTCCCGAAGT	TTTGAGTGAA	GTTAGTACTT	CAGAAAAACT	GTTTTGTATT	TTTCCTGTGA
198061	CCTCAGTGCA	CTGCTGTGCA	TTTCATTTTC	TGCGTCCACA	CACATTTGTT	TTGAGGAAAT
198121	ATAGGAACGA	CAAGATAAAG	TTCAAGCTCC	TGGACATTGC	ATAAAAGACC	GTCATGACCT
198181	GGTCCTGTTG	ACTTCCCTAG	ATTTCCCGCT	ATTTCCCTAAG	TTGAGATTTT	TGGTTTGGAT
198241	GCTTTGTGTT	TTCTTAAAAT	CAAAATAGGT	TTTTGCCTTT	TATGATTATA	CAGTAAATAA
198301	ATGCTATTTG	TGTGAAACTT	TAAACAATAC	AAAAAAAACC	TAAGGAAGAA	AGTCAGATTC
198361	ATCTAAAAAT	CCTTGTGGCC	AGAATTAACT	ACCTTAGTTA	CTATTTTCTC	TATCTCTCTC
198421	TCTCAATGTA	TATTTGGTGT	AGGTATAGGG	GTGTGTGTAG	TGTGTGTGTA	TGTATATATC
198481	TGTTTCTATT	CCTGTATGTG	GATGTGCACA	ACGCATCCTG	CTTTGTACAC	TACAGTACTA
198541	GCATTTTCT	AATGTAATTC	AATATTGTTG	AAAACATTTT	AAAAAAGCTT	GTATATATAC
198601	ACACACATAC	ACATACATGC	ATGTATGTAC	ATATACACAT	ACAGACAAAA	ATGTATCCTA
198661	TGTATATTCA	CACATGTATA	CACACTCACA	CATACATAGA	GTTTTACATC	CATAGTTTAT
198721	AAATGTTGCT	TTTTTTTGGT	CACCTTTTTG	CTAAGTCTTA	CACCTTTTTT	TTTTTTTTTT
198781	GAGACGGAGT	TTTGTTGTCA	TGCCCCAGGC	TTAGTGCAGT	AGCGCGATCT	CACCTCACTG
198841	CAACCTCGAC	CTCCCGGGT	CAAGCGGTTT	TCCTGCCTTA	GCCTCCTGAG	TAGCTGGTAC
198901	TACAGGTGTG	CGCCACCATG	CCTGGCTAAT	TTTTGTAGTT	TTTTTATAGA	GACGAGGTTT
198961	CACCATGTTG	GCCAAGCTGG	TCTGGAATC	CTGACCTCAA	GTGATCTGCC	TGCCTCAGAT
199021	TCCCAAAGTT	CTGGGATTAC	AGATGTGAGC	CACTGCACCC	GGCCAAGTCT	TACACATCTT
199081	TTTTTTACCA	CTAAACTGTT	TACCCAAACC	TGATAACCCA	AGTCAACAGC	TATTATGGCT
199141	CACACAATCT	TATGTAAACA	AAGATACAGA	TATATAGAAT	TTTCTTGATT	AATATTCAGA
199201	AAAAAATGGA	GTCCCTTTAT	ACGTCCTTAG	TATCTGCTTT	ACTCATTTAA	AAATGTATTA
199261	CATTATATGA	AAGTATTCAG	GTCAAATGTT	ATAGATGTGA	TTCAATCTTT	TTAACTGTGT
199321	TATTTTTCTG	CAATGACTAT	GTATCACAAA	GTACTCAGTC	TTCCACTGAT	GAAAATTTGG
199381	GCTATTTCCA	GTTTGTCTTC	CATTTTTCTT	TCTTCTCTT	GGATTTTCAC	TCAATGTGTT
199441	TACTAATTTA	GGAAGAATCA	ATAGTTTTTA	TGGTATTACT	TCTCCCATTC	AAGAATATAG
199501	CATATGGTAT	AGTATAGTAG	AGTACTTAGT	TTAATTTAGC	CAGATCCTGT	TTTCTGCCCT
199561	TTAATAAAAT	TCTATCATTT	TCTGCCTTTG	AGTCACATTT	TCCTTGTTCA	TATAATTCTT
199621	AAAAAATGTA	TAGTTTTTCAT	TCTAAGGGAA	CATAAAAAC	TCTTTCCATT	TCTATTCCCTG
199681	TCTAGTTAAT	TCTACTATTG	GGAAAAGTAA	CTGTTAAAAA	AAATTCTTAT	CTTTCCAGTC
199741	AGTTTACCAC	ATTTCCCTTTA	TACCTTTGTA	CTTTAATCCC	CAGTCATGTT	GAACACTTCT
199801	TATTCCTCAC	ACCAAGCCTC	AACGGGTTTG	CTCTTTCTGG	AAGGTGCTTC	CCCTGTATTA
199861	CTGACTTATT	CATACCACAC	ATGGAGACTG	GCGCAGCCCT	GTTCTGCCTG	GGAAGCCTTC
199921	CCCTGATACC	CCCAGTTGGC	AGGAGTCTTC	ATTTGTTCTT	TTCTAGTCAC	CTGTGCAAGT
199981	TTGTATTGTT	CATGTTTATC	ATCCTTCATT	CTAGTTGTCT	GTCTCTGTGT	GTGGTCTCAT
200041	TCAGTGGACT	CTGAACCTTT	ATGAAGTCAT	GTCATGGGTC	AGATCTTAAT	AAATTAATAT
200101	TGTCGGAAGC	TAATGTCTATG	TCTAGAATAC	AGAAAATTTA	TCAAAAAAAA	ATATAGTATG
200161	TTGGCTGGGC	GCAGTGGATC	AAGCCCCTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCAGGAG
200221	GATCACATGA	GGTCAGAAAT	TCAAGACCAG	CCTGGCCAAA	ATGGTGAAAC	CTCATCTCTA
200281	CTAAAAATAC	AAAAAGTAGC	CAGGCGTGGT	GGTGCCACC	TGTAATCCCA	GCTACTCAGG
200341	AGGCTGAAGC	GGGAGGATCA	CTTGAACCTG	GGAGGCAGAG	ATTGCAATGA	GCTGAGATCA
200401	TGCCACTGCA	CTCCAGCCTG	GGCGACAGTG	AGACTCCATC	TCAAAATAAT	AATAATAATA
200461	ATAATAATAA	TAATAATAAT	AATTGTATGG	AATTGAACTG	CTCTGATTGG	AAATAGCTGT
200521	TTTTTAAAAA	ATTATTATTT	TTTAAGTTCC	TGGGTACAAG	TACAGGATGT	GCAGGTTTGT
200581	TACATAGGTA	AACGTGTGCC	ATGGTGATTT	GCTGCACCTA	TCAACCCATC	ACCTAGGTAT
200641	TAAGTACAGC	ATGCATTAGC	TCTTTTACCT	AATGTTCTCC	CACACCCCCA	CCCCATCCTC
200701	CCCCAACAGG	CCCCAGTGAG	TGTTGTTCCC	CTCCCTGTGT	CCACATGTTT	TCATTGTTCA
200761	GCTCCCACTC	ATAAGTGAGA	ACATGAGGTG	TTTGGTTTTT	TGTTCTTGCC	TTAGCTGTTA
200821	ATGTCAGGCC	AGAGAGGCTT	AAATTTTTAA	GGATCTCTGG	ACTTTTCTTC	TACATTACTC

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200881	TTGATGTTTA	TAAATGTTAC	AACCTCTTTA	ATTCATTTA	ATGTATACCT	TATTGAGTTG
200941	ATTTAACTGA	GTTAACTTTG	TTATATGAAA	ATCATGATTG	GGAGTGAGGG	GGTTAAACCA
201001	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCAAG	AATTCATTCA	TTCAGTAAAC
201061	TAATGTTTAT	TAAGCGTGTA	CTGTCTTAGT	CTGTTCCAGAC	TGCTGTAACA	AAATATCATA
201121	AACTGGGTGA	CTTATAAACA	ACAAAAAATT	TATTTCTTAC	AGTTCCTGGAG	GTGGGAAGTC
201181	TAAGATTAAG	GCCCTGGCAA	ATTTAGTGTC	TGGTGAGGAC	AGGTAGCCAT	CTTTTGTCTG
201241	AGTCCTAACA	TGGCAGAAGG	GTTGAATAAA	CTTCCTTGGG	TTTCTTTTAT	AAGGACACTA
201301	ATCCTAGTGA	TGAGGTTTCT	GCCCTCATGG	TATAACTACT	GCCCAAAGAC	CCCTCCTTCT
201361	AATATTATCA	CTTGTGGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTTG
201421	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TTGTGGATAT	AGTGATTCTC
201481	AAAATGAACA	AGATCCCCCTC	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTTA
201541	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TTGTGGCATT	GAATACTTTC
201601	GGCCACTCTT	TCCTTATTAT	ATTAAATATT	TACTCTTGTT	TGGGGGATCC	AGTCTCACCT
201661	ACTTTTTCTA	CCAGAACTGG	TATCAGCTCA	TGCTCTGCCT	TATGCAAATT	AAGAAAATAT
201721	CATACCTTTT	GGGTAAATTA	AGCCAAGAAA	GTTCTCCTTT	CTTCTCTTTC	TCTCTTCTT
201781	TCTTCTCTC	TTTCTCTTTC	TTTCTTCTC	TCTCTCTCTT	TCTTCTTTC	TTTCTTCTT
201841	TCTTCTTTC	TTTCTTCTT	TTTCTTCTG	ACAGGGTCTT	GCTCTATTGC	CTAGGCTGGA
201901	GTGCAGTGGT	GCAATCTCAG	CTCAGTGCAG	CCTTGAAGTC	CAGGGCTCAA	GCAATCCTCC
201961	TGAGTAGCTG	GGACTATAGG	CATGTGCCAC	AACATCAAGC	TAATTTTTGC	ATTTTTTTGT
202021	GGAGACGGGA	TCTCCCTATG	TTGCTAAGGC	TGGTCTTGGA	TTCTGGGCT	TATGCGATTC
202081	TCCTGCCTCA	GCCTCCCAA	GTCTGGGAT	TACAGGCATG	AGCCACTGCC	CCTGGCCATT
202141	ATAACTATTT	TCATTGGCTT	ATCAGGCACA	TGATAACTAT	AATAAATCAA	TAACCAGAAT
202201	TTTAAATATA	AGAAAGGAAG	GAATTGTTTC	AACTCTTCCT	GCTACCCCTC	TATCCCTCAA
202261	AAGGGTAGGC	TGAATGTTGT	CCTCCAAAGA	TATCCATGTC	CTAATCCCCA	GAACCTGTAA
202321	ATATATTACC	TTATATGACA	AAAGGGACTT	TACATGTTTA	ATAAGTTAAG	AATTTTGAGA
202381	TGGGCAGATT	TTCTGAATT	TTGCAGATGG	GCCCTAGTGT	AATCACAAGG	GTCTTATATA
202441	GAGACAGGCA	GAAGAGTCAG	AATAAGAGAA	AAATACTTCA	AGATGTTACA	CTGCTGGCTT
202501	TAAGGTGGAG	GAAAGGCCAA	GAGCCAAAAA	ATGCAGTGGT	CAGTACAAGC	TGAAAAGAAA
202561	AAGAAATGGA	TTTTCCCTA	AAGCCTCTGG	AGGGGGCACA	ACCTTGCCAA	TACCTTGATT
202621	TTGGCTCAGT	GAAACCCATT	TTGGACTTCT	GACCTTTAGA	ATTGTAAATA	AATAAATAAT
202681	TTTGTTGTTG	TTCAAGCCAT	CACAGTTGTG	GTAATTTACT	ACAACAGCAA	TAAATAGAA
202741	TTAAATACAG	AGATCTGAGG	AGTTGAGTAG	GATAAGCCTA	CTCCAGCAGG	TTATTTGCGG
202801	AGTATGGTGA	GACTCACTAG	GATGGCGGAA	CTCAATTAAG	GAAGTCTGAA	GCTGATAAGC
202861	CAGAGAGGGA	AGGCTCTCAT	TTCATTTTAT	AAGGGTTGCG	TCACACTAGG	AAGATCCAAT
202921	AGCAACCACA	GTCTCAAAAT	TAATGATTAC	AAATAGGACA	CAATTCCAAG	AGTCGGGAGC
202981	CAAGCAGAAA	ATGGATTAGG	GAAGACATGG	ATGATATGAA	ACAGGAAGGA	GGGGTACAAG
203041	GCAGCTTCCT	GGGAAGTTGC	CAGGGCAGTC	ACAGTTCACA	TTCATTAGGC	TGTGGGCACC
203101	AAATGCATAT	GGAAAATCTA	GCTGACTTAA	CTGAATCCT	GAAGAGGAAT	GAACACCTCA
203161	TTTATTGAGG	AGCTACTACC	AATTAGAATA	TGTATTTTCT	TTGTTCAATA	ACCCCATGAG
203221	TACAGTAACA	CAATCCTTGC	TTTACTAAAG	CGGAAGCCAA	TTCAAAGAGG	TTCACTGACT
203281	TGTCCAAGCT	CAGGGAAAAC	ACTAGGAAGT	GAATATGGGT	CTGACTCCAT	CACTGATTTT
203341	AGGAGCCCTG	CCCTTTCCTC	CACACCATGC	CCCCTTGCTT	TCAGAAAAAA	AGGCTTGTG
203401	ACTGAATGGT	TGTATGCACA	GTTCAAAGCA	GAAACACACG	ATGACATCTT	TTGAGATACT
203461	CTAACAGTGA	GAAGTTGAAA	ATGAAGTTAA	AAATTAAGCG	GCAAAACCAA	GCCGAGGCTT
203521	TCTGAGAAAAG	TGGGGCCAAA	CCTGTTGCCG	TCTGACTGCC	ACGTGGCTCA	CTATTATATC
203581	CTGTAAAAAT	CTGCAAAAGT	ATTTGAAAGG	GAAGAAGGGA	CAGAAAACTC	CCTCCTTTTC
203641	CAAGTTAGCC	TTATAGTCTA	GGGCTTAAAA	TACTGGTTTA	ATGGTGAAGG	TAAGTGCTTT
203701	TCTTCTTTTT	GGGTAGAAGG	ATTATTACTA	ACTTACCAA	GGTCCATTAA	GGGGAGGGAA
203761	CAGTTTTTAGG	AGAAGTCAGA	GAAAAGACAT	TAACAGCAAC	ATAAGGATCT	CCATCTGGTA
203821	ATATTGCCTA	ATTCCAAAAT	GAAGAGACTC	TCTGAAAAAG	ATAACTGATT	CAATGAAGAC
203881	CCTAGGGCAA	GGCTTGAGAA	GCCACTGGTA	CCAATGGACA	CTGTGGACAA	TGGTCATTTC
203941	TCCAAGGACG	CTGTGAGTAT	TAAGTGTGAT	GCTGTGATTA	GTCAGACTGG	GATTGGCTGT
204001	GGAATGAAAT	ACTGATCAGA	ACTGACAAGA	TTGTGTTTGG	GGACTGTGGC	TAACGAGTCT
204061	TTTCAGACTT	CTATATGAAT	TTGAAATGGT	CTCTCAGGAA	AAGGAGAACA	TGGCCGGGCC

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204121	TGGTGGCTCA	CGCTGTAAT	CCCAGCACTT	TGGCAGGCTG	AGGCGGGCAG	ATCACTTGAG
204181	GTCAGGAGTT	TGAGACCAGC	CTGGCCAACA	TGGTGAAACC	CTGTCTCCAC	TAAAAATACA
204241	AAAATTAGCA	GGGCGTAGCG	GCGCGTGCAC	CTATGCGCAT	GCATAGTGCG	CGTGCCAGCT
204301	ATTGAGAAGG	CTGAGGCAGG	AGAATTGCTT	GAACCCAGGA	CGTAGAGGTT	GCAGTAGTTG
204361	AGATCATACC	ACTGCACTCC	AGCCTAGGTG	ACAGAGTAAG	ACTCTGTCTC	AAAAAATAA
204421	TAATAATAAA	AGAAAAGGAG	AACATGACCA	AAGTTATGAA	TAAGACTGAA	GGCAAGAAAA
204481	TTGTACGCTT	GTAGAGATCA	CCTAGCTTGT	TGCCCTCATT	GTACAGCTAA	GAAAAGGCAC
204541	CCAGGGACAT	TGTGGTCAGC	ACCAATTTCT	CAGAAAGATA	GGCAGATGAT	GAGAGGGCCC
204601	TCAGTTTTTC	TAACACTGAA	GGAATTGCTT	CTATGTTTTT	TGGTGAACTC	CTCCCCACTC
204661	ATCTTGAGGA	TTCCAGGCCA	GAAGATCCCA	CTTTAAAAAA	GAAACATTTA	AAACCAATTT
204721	AACAACCAAT	CAAAGGCAC	TTTATAGAAA	TACATTTTCT	TGCTGTAGG	CCTGTATTTA
204781	TGGATCTGAG	AGGGCTAGAC	TGCCAATATT	GTGACTGTTT	ATTATTATTG	CTGTTGCTAG
204841	TATCTAGAAT	ATTATACAAC	ATATAACACT	TTGCAATTTA	CGAGGCATGT	CTCATACTTT
204901	TGTTTTTCACT	CCAAACTGCC	CAGTGAAGTA	ACATTATCCC	AATTCTTCCT	ATGAAACAGT
204961	GAAAGCCCTA	AGAGTTTTTG	AAACTTTACC	TGGTTTACTC	AATTTGGGAA	TGGCAGAGCA
205021	GAATTCAGTC	CTTGAATATC	CTCCCACTGC	AGGTTTCATG	TCTTTGATCT	AGGTGTAACA
205081	TTTACTCTGA	GTAAGTAGG	ACTCTGGGCT	AACAGAGATG	AAGCAAGACA	GGCTGGATAT
205141	TAGGAGAATC	TAAGAGCAAT	CTAACGACCA	TTATAATAAA	ATCATGAGTT	CTAGACTTAA
205201	AAAAAGGGAA	AAACCTGTTT	TTTTGCTTAT	GCGTATACCA	TAATATTTAT	ATTATTTATT
205261	TTTTTCTCAA	ATTCAACCTA	TACTGTGTCA	AGTAATTTTT	TTAATATAAA	CATTTTCCTT
205321	TAACCTAATT	TCAATTCATT	TTTCTGTGTC	TACTTACAAC	TTTGGCACTA	GAATTCACAA
205381	TTTTTTTTTTA	GAGGTATATC	TCCTTAAAGG	GAAGGGTTCT	GACACTGTTA	CATGTTCTCA
205441	ATTGTTTGCA	AATAGGTTAA	TAATTATTCC	AGTGTCTCTA	AGTACATATC	AACCATGCCA
205501	GTGTTTCAGCC	TCCATAATTT	TATTAGCTTC	TGTGCTTATT	TGGAAAAAAC	ATTTCCCAT
205561	ACCATGAAAG	ACCTCAGTTT	AGGATGGTTT	GGTATGTTAG	CCTGATTTCT	GCATTCGTCT
205621	CATGCAAAGG	AAAATAGGAA	ACGAAGAACT	GAAATTACCT	ATTGATACAA	AATCAAAGTA
205681	GCATTTGAAA	CCATAAAACT	TAAGTAGGGC	TTTTCATCCT	TTCTCGTTAG	ACAGCAACAG
205741	AGAATGGGAA	GAAAAACTAA	AGTGATGGGT	TTGTGATACA	ATTCCAGTAA	CATAAAGAGC
205801	AAGGAGAAGT	AGTTTTGTTG	TGTTTATGTT	TAATATTCAA	AGCTCAACCT	AAAAGTATTT
205861	TTCATTATCA	AACTTCCTTC	TAGAATAAAT	GATTAAAACT	TGATTTAAAA	TATACAAATT
205921	CTCCTTTATA	ATACCTCAAA	ATGGAGCTAC	CCCATTGAGT	TTTAAGCTTG	TGATTTAAAT
205981	ATTACGAAAA	CAAAGGGGAA	GTTGTAATAG	GTAGAACAAG	CAGTAGTCTA	GGCATTAGGG
206041	GATCTGGTGC	TGGCTCTGTG	CATCATGTGG	TTTCAGGCAA	CTTTTCAAAT	TTTCTACGCA
206101	AATTTTCTTA	TCAATAAAAT	AAACAGTTGG	GCCAGAGGAT	CTCTGAGTCT	CTTTCAGCTT
206161	TCAGTGTTTA	TAAGATTGGA	GAAGTTGGTG	GGAAAGCTTT	AAGTGGAGTG	TAAGTAATTG
206221	CAGCTGCATG	TACAGTTAAA	GAGTTGCCTT	CAGCCAAGCC	ACGGGATCTT	GCATAAAAAG
206281	TGAAATCAAA	TAGAAAATGG	TCCAAACTCT	GGGTTTGACC	ACAGATGACT	TCAGCTAGGA
206341	TCTGAGTGTA	GAGCAATGAG	CTGAACTCCT	GATATCCAGA	TGTTAGCAAG	ACTTGGAGGC
206401	CTTCTAAGGC	AGAGCAACAA	CCAGTATCTG	TCCTGGTGCT	GACCTGATCT	TACTAGCAAT
206461	TGGGCCCTCCA	TTTGGGTCCA	TTGTACAAAA	CAACAACAAC	AACAACAATA	AAATCTCCAA
206521	ACACCCAAAA	TTCAAAATTT	AGATGGAGAG	ATACTATTCC	CAGAATTCTA	GAGATATTTG
206581	GAAAGCAGAA	AACTATACTT	GCCATGCTGA	TGAAGTCCAA	TTATTGCTCT	TTTAAATACA
206641	TTTAGCTACT	TCTGAATATA	AAATGAGTAT	CTACTAATTA	TTTACAAAAT	CACTTGGTAA
206701	ATATAGAAAG	TCACAAAGAA	TGAAGTGATC	ATCCTGTTTT	GTAACCCAGA	AATAGTCATT
206761	ACTGGCACTT	GTGTGAATCA	GTTTCTATTC	CTGTATGTGG	ATGTGCACAG	CGTATCCTGC
206821	TTTGTACACT	AGAGTACTAG	CATTTTTCTA	ATGTAATTCA	ATATTGTCGA	AAACATTTTA
206881	AAATAGCTTC	CATCACAATA	ATCTATCAAA	TTGACTTGCC	AGACTCTCAT	TATTAGGTTA
206941	ATTTATCTCT	AACATTATGC	AGTCATGAGT	AATACTACAA	AGGATATTTT	TGGACACAAT
207001	TTTTTCATCTA	TGCCCTTCTT	TATAATCCTT	CATCCTAAGG	TCACAGATTA	TGAATATCTT
207061	TAAAGTACGG	ACAAGTCTTT	TAAATTTTGT	GTGCAAAAAC	AGTGCAAAGC	CTTGAATGAT
207121	AAAATAGAGG	TTTGATATAT	GTGTTTTTTT	GTTTGTTTTGT	TTTGAGACGG	ATTCTGTCTC
207181	TGTCCCCCAA	GCTGTAGTGC	AGTGGCACGA	TCTTGGCTCA	CTGCAACCTT	TGCCTCTTGG
207241	GTTCAAGCAA	TTATCCTGCC	TCAGCCTCCT	TAGTAGCAGG	GTCTACAGGC	ATGTGCCACC
207301	ACACCCGGCT	GTTTTTGTAT	TTTTAGTAGA	GATGGGGTTT	CACCATGTTG	GCCAGGATGA

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207361 TCTCGAACAC CTGACCTCAA GTGATCCACC CACCTCAGTC TCCCAAAGTG CTGGGATTAC
207421 AGGTGTGAGC CACTGCACCC GGCCGATACA TGTGTTTTTA AAGTCACAGA AATTTTCAGAT
207481 GTCTTGAAGG ATTTTAAAGCA ATTTAAAAAA TAAAGTCATA GAAGCTTCAA TTTAGGAATG
207541 AATGGAAAAT TGATGATATT CTTAGGATAT GGATTTTTCC TAAAAGAAAC AAATGTATGC
207601 ATCCCCAAAG ATAATTTGAT TAGTATACAA ATATTAAATT AAACATGTCC ATATTTAGAG
207661 CCATGAATTC TCTTTGCCTG TCACAATAGC TGGATTATT CACAATTGTA GTAATTAGTC
207721 CCTGTTCAAT ATAATTTTCT AGGTGATATG AAGACTTTGT CAGTCCAAGC AAGTGTCCAC
207781 ATTGTGTGTA GCAAACATGA GAATAAACAT TTTAACTTT TAAATGTAAT ACATATTAGT
207841 GTTATGTAAT GTCATCCTTC ATGTTTGAAG GCACATGGAA CATTTGTTCTG GTGGTACAGA
207901 GGGGAGAGAA ACACCATCAG AATGAAAGGA AAGACCGCTC TGGAACCTTC CTCCTTAGCT
207961 CTTGAGCTTA GTTTAATTGT CCTGTCTTAT GGTCTGCTAC AAGCAATACC ACTCTTCACC
208021 TTCGCATGCT TCTCTGTGGT TTGATAAAGT ACATGCAATT TTTCATTAA TTTCTCCAGC
208081 TGCCTAAGA AAGGAGCCTT ATCTTTATTG AACAGATGAG GAAATGAATG ATTAGAGAAT
208141 TTAAATGACT AGCTCTAGGT CACACAGCTG GAACTTACAG CCAGATTTC TTTTAACAAT
208201 CCTGTAACCA AAAGCATACC AGTAGTCCCC CATAAATGT AAGTTATAGA GCTGTGTTGG
208261 GTCAAAACCT TTAATGATGC TAAGAGGAGG CAACATTAAC AAGGGGAAAT TATTTGTGTA
208321 TTATGTTTTG GATTATGTTT TCTCCATAGA TAAAGACTG TCGTAGTAAA AGAGATTCAG
208381 GGCACAGGGA AACTCCACCA CAAAGCGTGG TACCATTTC CACAGAAGCT AAATGGACGG
208441 GAAGCCTGCC ACCAGGAAAG GTAAAGCCAC TGCTCTTGT TGCAGGCTAT GTTAATAAGC
208501 TGAAGCTTAT TCCGACACAT TTACACATCT CTGCATCACA CTGACCTTC GTAAAGATAC
208561 TCCCAGTGTA ACATTGGAGC CAGCTCCAGC CCCTGATCCT GTTGCTTTTT CTTAGCCCC
208621 ATGAAATCAT CTGTGAGAAA TTAAGCCAAA TAAGCAATAA ATCCTGGGAT CTAGGGAGTG
208681 GAATAAGTTT TGGGAAAGTC TTTTTTTTTT TTTTTTTTGA CTGAGTCTTG CTCTGTCTCA
208741 CAGGCTGGAG TGCAGTGGTG CGATCTCGGC TCACTGCAAC CTCTGCCTCC CGGGTTCAG
208801 TGATTCTCCT GCCTCAGCCT CCCGAGTAGC TTGGACTACA GGCACACACC ACCATGCCCCA
208861 GATGAATTTT TGTATTTTTA GTAGAGATGG AGTTTCGCCG TGTAGCCAG GATGGTCTCG
208921 ATCTCTGAC CTCGTGATCC ACCGGCTCG GCCTCCCAA GTGCTGGGAT TACAGGCATG
208981 GGCCACCACG CCTGGCCCGG GAAAGTCATT TTAACCAAC CATGTATGA ATCCCTACTA
209041 TAATATTCTC ACCAAGCGGC TGGCTCTTTC TCCTGAGCTT GGAAACCTCC AGTAAAATGG
209101 AAATAATTAT TTCCAGACC ACCACTCTTA TCTGTGAGCT TTTTGGCCA TTAATAATTA
209161 TTTCTTCCAT TATATTTTTA TCTGTGCTT CACAGGTTT CTCTTCTTT CACTTTAGTG
209221 CTTTTCTTCA AATAAGCAGG AAAAAATCAA TCTATCATGC ACATGGGAAC CCTTTCAATA
209281 TTGGTCTGTG GTTGTTCAT TTTATGGGGA TGCTTTTAAA GAAAAAATTT GTCCTTTCAA
209341 TATATTGAAT ATCTTCCAGC ACCACATCAC CTGCAAGCTT TGTAAAAATA GTTCTACATA
209401 TTAATTTTTT TTTTTTTTTT GAGATTGAGT CTCATTCTGT CACCCAGGCT GGAGTACAGT
209461 GACATGATCT TGGCTCATTG CAACCTCTGC CTCCTGGGTT CAAGTGATT TCCTGACTCA
209521 GCCTCCCGAG TAGCTGGGAT TACAGGCATG CATCACCATG CCTGGGTAAT TTTTGTATT
209581 TTAGTAGAGA TGGGGTTTCA CCATGTTGAC CAGGCTGGTC TCAAACCTCT GACCTCAAGT
209641 GATCCACCTG CCTTAGCCTC CAAAATGCT GGGACTACAG GCGTGAGCCA CTGCACCCCA
209701 CGTAGTTTTT TTTTTTTTTT AAGTTGAACA TATGTGAAGG CAGGACCTAG TGACACATAG
209761 CAATAACATT TCCAAGTAGA CATTACACTA GGGAAATTAGT CGAAGTGCTC ATTTAAAGTA
209821 CCATCTCTCA AATGTATTAA AAGAGAATCC TTGGATGTGC AATACCTTAA TTCAAAGGCA
209881 GCTCGTTATG TATAAACTCT CAAGCTTTGT GATAAACAAA TGTGCATAAC AGATGGGACT
209941 ATTCATTAC AGCCAGGGA ATTTTATTGA CGCTGAGAAG GTTATGTGAC TGGCTCTGCC
210001 ACTGTCATCC CCATTCACCT CATTTTGGAG CAATATGACA TAAATGCCTT ACATGTGGGT
210061 TTTCTCTATT TATCATGTGT TTCCTATCCC CTTGAAAGAT GGCCATATTT GCTTTACTTG
210121 GTTATAAGAT CCCATATTCG CTGTCTTGAA GCCAACCAAA TAATTTGACA AAGTGGGTTT
210181 GTAGTGCTGG CTATTTTGGT GAAAAAAGA CAATGAGACT TCATGTGTCA TCCAAAGTTC
210241 TATCAGATCG AGCTGTGAGA GAAAGGAAA GAAAGGGGTC TCAGTCAGGA TGCTCACTAC
210301 ATACATCTGT GTTGTGTCT AGGTCAGAT TTCTGTTCAT TACGCTATGG GCTGGCTCTT
210361 ATCATGCACT TCTCAAACCT CACCATGATA ACGCAGCGTG TGAGTCTGAG CATTCGATC
210421 ATCGCATGG TGAACACCAC TCAGCAGCAA GGTCTATCTA ATGCCTCCAC TGAGGGGCTT
210481 GTTGCAATG CCTCAATAA CTCCAGCATA TCCATCAAGG AATTTGATAC AAAGGTAAGT
210541 ATGATGGAAT ATAGGGCTCT TTGTTGAGAG AAAAACTTT GAAAGGAAG CATAGATCTT

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210601	GATTCTGTGG	AGTATGGAAG	TATACATTTT	CAATGACAAA	TTAAAACTGA	CTGGAACAT
210661	TTTTCTTTGA	GACATTGCTT	ACTTCAATAA	TAAAAATAAG	ATTTCATTGA	GGTTATTATG
210721	ATTATAAGGT	GGGGGAACTG	TAGAGTTAAA	TGTGAAAAAT	TTAAAAATGG	AACAGTTTAT
210781	GTGATGTCTT	CAATGAAAAA	CTAGGTATTA	CCTGGGCACA	TTCTTATAGG	TTACTCAATC
210841	CTATTCAGTT	CTCTGCCTGT	TTTATTGTTT	CTGAGCAATT	TTATATCCCT	GTAAATTCTA
210901	TATAACCAAT	AGAAATGCAA	ACGATTCTTG	TCCATAGCTT	TGCAAATAAA	TTTTGCCAAG
210961	AGAAAAATCA	GTAAAACTT	TTCTCCACTC	ACCTCCAGT	TGAATTAGCC	AATTTTGCTG
211021	TTTGTGTTGT	TGTTTGTTTT	TTGAGATAGA	GTCTTCCTCT	GTCAATCAGG	CTGGAGTGCA
211081	GTGGCATGAT	CTCAGCTCAC	TGCAGCCTCC	GCCTCCCGGG	TTCAAGAGAT	TTTCCTGTCT
211141	CGGCCTCCCA	AGTAGCTGGG	AGTAAGGGGG	CATGCCACCG	CGGCTGGCTA	ATTTTTGTAT
211201	TTTTAGTAGA	GACAGGGTTT	CACTAGGCTG	GTCTCGAACT	CCTGACCTCA	GGTGATCCAC
211261	CCGCCTCGGC	CTCCCAAAGT	GTTGGGATTA	CAGGTGTGAG	CCACTGTGCC	AGGCTCTGCT
211321	GTATATTTAA	AGTCTATTTT	AGCATTGCTT	CCTGCTTGTT	TTATGCGTGA	TTCTTTGAGT
211381	TTTCCTTTGA	ACCAGTTATA	ACATCTTACT	TACTTCCTCC	ATTAATCAAT	GAGTTAAATA
211441	AAATCTTTGT	TGTATGTTTA	TTTTACATTT	ATATGAAAAC	CATGAATTTA	CCCCAATAAA
211501	AAAATTATCC	TTTAAATTAT	CTGTACTGT	ACATTTCCCA	TGTCATCCCT	ATAATTCATG
211561	ATTAATGATT	TTATTACATT	GGACCTAGCT	TATTTACAAT	GAGTACATAA	ATTTATTGTC
211621	TCCAGTCTTT	CCTCCATTAT	CCCGTCTACA	TATCCACACT	GAGTAGATTG	ACTACTCAGG
211681	AATCTTGGAC	ACCTTCAAGT	TGCCAAACAT	GCAGTGTTCA	CTGGACATGC	TGTGTTCCCT
211741	CAGAATTTGG	GCCTGCTTCT	CAGCACACTC	ACATCTGCTA	TCAATGACCC	ATGGAAAGTT
211801	TTTGCCCTGA	GCAAGCCAGA	GTCCTGTGTA	GTTTCTTCCA	AATGCTACAA	GTTCACTTTT
211861	GCTATTTTTT	CCGATGAGAT	AAAATTTTCC	TTTTTGACTT	TCTACAAATC	ATAGTCATTT
211921	TTCAAGGGAT	AGTTCAAGTA	TTGCTTCCTT	TCTGGGACCT	TCCCAAATTA	TTATTTTCTC
211981	CTCTCAAAGT	CTCTGTTTTA	TTTATGTTCA	TCCTCAAATC	TTGATTCTCA	CATGAATCAT
212041	ATACCTTGTA	TTATTTATAG	TTTTTTTGAG	TGGGTAAAAT	ATTTCATATT	TTATATTCTT
212101	TGGCTCTCTA	CTTTATAGCA	TGATGCCAGA	TATTTAGGGG	CCTTATTGCA	TTTATTTTTT
212161	ATTTTATTTT	AAAATCTATT	TTATTTTTTA	TTTATTTATT	TTAAAATCTA	TTTATTTTTA
212221	GGTAAATATT	CAGGTAATAT	AATTTATGTA	ATTATTTAGG	AATTTTAGGT	AGTTATTTTA
212281	AAATAATTCA	AATTATTTAT	TGAGTTATAT	CAGAAGAATG	TGATCTTATT	CATTGTGAAT
212341	ATGTGTTTTA	GGAACCTCAGT	TCAGCCAGGG	CAGACCATGA	TTCCCAAAC	TGACTTTTCT
212401	TTTTAATTAG	GCACTGATTT	TGGTTAAGAG	TTCAAGTAAAG	TTTTGTGTGT	GTGTTTTAAA
212461	AAATTCCTTG	ATATAAGAGT	CAAGATGTTA	CTCAACTTTT	ACTAGAAGCA	AAATAGAGGA
212521	AGTGCTTTCA	CAGATGAAAT	ATCTCTCAAT	GTTTTCTTCC	ATTTACTTCT	TCCTATTATT
212581	CATCTATATA	ATCATTTTCT	TTACCTCTTT	TCTTCATTTT	TTCTGTTTTT	CTCTCCTTCT
212641	ACTAAGACAA	GCAAATTAGG	GGTATAATTG	GTTATTTGGG	AAGGTAGGAA	GAATATAGAG
212701	AGAAACAAAA	ATCAATATTT	TATACTAGGG	TCTCACTAAC	CTCAAGCAAC	TCTGACTGTA
212761	AAGTAGATTT	TCATAATAGG	ACTTCTTGAC	AAAGAGTTTT	CCTATTTTTT	CCCCAGGCCT
212821	CTGTGTATCA	ATGGAGCCCA	GAAACTCAGG	GTATCATCTT	TAGCTCCATC	AACTATGGGA
212881	TAATACTGAC	TCTGATCCCA	AGTGGATATT	TAGCAGGGAT	ATTTGGAGCA	AAAAAAATGC
212941	TTGGTGCTGG	TTTGCTGATC	TCTTCCCTTC	TCACCCCTCT	TACACCACTG	GCTGCTGACT
213001	TCGGAGTGAT	TTTGGTCACT	ATGGTTCGGA	CAGTCCAGGG	CTTGGCCCAG	GTATCCAGAT
213061	ACTTTCTCAT	TCTTGGTGGG	ATCCAGATTT	CTGAATTCTA	CAAAATATCA	AAGGTCTTAA
213121	TGATTTTCTA	TTTCAAGGAA	GGCATGGACA	GGTCAGTTTA	CTATTTGGGC	AAAGTGGGCT
213181	CCTCCACTTG	AACGAAGCAA	GCTCACCACC	ATTGCAGGAT	CAGGTAAGTG	TGCACAGATG
213241	GGTCATAGCT	TTGTCACTCT	TTCCATCCCA	CTGTGTCTTA	TCTTCTATGA	ATCAAATGGT
213301	TTGGGGGAAG	GAGAGAAAAA	GTACTGCTGA	AAAATTCAAC	AATATAAGAC	ACTTGCATCA
213361	CAATAGGAA	AGATGCATCT	GTGCAGTAAA	GACATTGAAG	CTTAGAAGTA	GAAAAAACCA
213421	TTGTGAGCTA	GGTTTCAGCT	CAGAAAAGCC	TTAGTAGTCA	GAAAAGCCTT	AGTAGTCAGA
213481	AAAGCCTTGT	CGGAAAAAGT	TTAAACCTTT	AAGAATTGCA	CACATGGAAA	AAGATCAAGT
213541	AAGCTATATA	TACACCATCT	TAGCAATGAT	TTTGAAGTGA	GAATTAAGGC	TACCACAGCT
213601	CCAGGTGGTA	AGGAGAGAAA	TCAGGCTGGA	AGAGTTTGAA	GTTTCTGTAT	TATTCTAAGC
213661	TCTTTACTAT	TCTATTATGA	GCTCATTAAAT	TCTCACAAAC	ACCCTCTCAT	ATAAGTACCA
213721	TTTTAAATTC	TTATTTTACA	GAGAAGGGAG	TTAAGGAAGG	TGGAGATTAA	GAAAATTGCC
213781	CAAATACAAA	TAGCCAGCAG	GTGGTAGGTC	TGAGATTTAA	GCCCATGCAG	ATTTTAGCCC

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213841	CAGAGCAGAC	ATTCTCAATC	ACTATGCTAG	ACTGCCTTTC	CATGGTATGT	GATCCTACTC
213901	AGGCCTCTAC	AGCTTTATCA	TTGCTGTTCT	CCCCAGCCTG	TCGTGCTGAG	AGTATATACT
213961	CGAAGAGCAG	AACTAAAATT	CCATCCAGCT	TCTCACTCCT	AGGTCCACTA	CACAGCTGCA
214021	TCCTGCAGAC	TTTTACCTCA	AGCAACCCTC	CTGCGTTCTT	GCTTCCTTCC	ATCATAGTTG
214081	TAACCATCTC	CTCTATTTGC	AAATACTATC	TGCTGATCTC	TCTCTTCTAG	ACTGGTTTCT
214141	TTCAACCCTC	TTCCCACCAA	AACCAAGTTA	GCTTGCTAAA	ATAAAGATGG	CACATTTTTA
214201	CTCACCCGCT	TGAGAATTTT	CAATGTGTTT	CTTCATGCTT	ACAGAGTAAA	GCCTGACCTC
214261	TTTATTGCAT	GAATACAAAA	GTTCTTAGCC	ATCTGGCCCC	AACCTTGTTT	CAGTCAACTC
214321	CCCTGTGCAA	GCATGGCTCC	AGTGGCACTG	GACATTGGCT	GCTCTCCACA	TAGATCTGCA
214381	CTGCACTTCC	CTCTGGCTCT	GCTCCCGTTA	GTTTATATGC	CTGGAAAGTT	CTTTGCCCTT
214441	GTTCTTGTG	CCAAAATTCC	ATCTATCCTA	TTGCATAGCT	TATGTAAAAA	CTTCCTAAAC
214501	CTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTG	AGACGGTGTC	TCACTCTTTC	GCCCAGGCCG
214561	GACTGCAGTA	GCGCTATCTC	GGCTCACTGC	AAGCTCCGCC	TCCCAGGGTT	ACGCCATTTT
214621	CCTGCCTCAG	CCTCCCGAGT	AGCTGGGACT	ACAGGCGCCT	GCCACCATGA	CCGGCTAATT
214681	TTTTGTATTT	TTAGTAGAGA	CGGGGTTTCA	AGCCAGGATG	GTCTCAATCT	CCTGACCTCG
214741	TGATCCGCCC	GCCTCGGCC	CCCAAAGTGC	TGGGATTACA	GGCGTGAGCC	ACCGCGCCCG
214801	GCCAAAACCT	CCTAAATCTT	ATAATTATTA	TCAAATTTATC	CTCAGATATA	CTTGCAACTG
214861	CATTGTAGTT	TTATTATATT	TATATTTTAC	ATCTTTTTTT	TCAAATTTCA	GTTTGGGACC
214921	CATTAGTGAG	TCATAAAATC	CATTGAGCGG	GTTAAAATCA	TTATTTTAAA	AAATGAATAG
214981	AATAGAATAG	AAATTGTTGG	AGTGCATTGG	ACATGGTAAA	GTTAAATATC	GATTCATGAA
215041	ACCATCGTTT	GAGGCATATG	TGTGTGGTTG	TATGTACAAG	TGTTTATGCA	TATTGGTGTG
215101	TGTGTTATGT	TACCCTGTAA	AATGCATTTT	TTACTATAGG	TCTCTGTGAA	ATATGTGTCT
215161	TGTTGTTTTT	TAATGTAGAC	TTCCAAAGCC	TACATGGCAT	TTCACTAGTG	ACAATCAATT
215221	TTATTACAT	TTTTCTCTCC	AATTGGACCA	GAAGCTCTTT	GAGGGCAGGG	GCTGTATCTT
215281	ACCGATTTTT	GTAAGTCTTT	CATTTCTCTG	CCCTAGCCTC	ATATTAGATC	ATGCAAGAAT
215341	GCAACTGTAA	TCACAAGAAA	ATGCTAATGG	GCTGTGATAG	CAGAGAGTTA	CTGTGACAAA
215401	CTAAGGGATT	TAGATTTGGT	CACATTGGTG	TTGAGGAGCC	ATTGAAGAAT	CAGAGAGTGT
215461	GTTACTATTA	TTTGTTAATT	TTAATTATAT	CATATTACTT	TACTGGGGAA	AATCTGTGAG
215521	CTATTTTAGA	AATAAATACT	CTCATTGCCC	AATAATTCTA	AGTCTGCCAC	CTCACTGTTG
215581	GGACATTGTT	TAGGGAGGCC	ACGAAGTCTC	AGCCTTTGAT	ATTTTCATAA	GTGTTTTTCT
215641	CCCTTTTTCC	TTTAGGGTCA	GCATTTGGAT	CCTTCATCAT	CCTCTGTGTG	GGGGGACTAA
215701	TCTCACAGGC	CTTGAGCTGG	CCTTTTATCT	TCTACATCTT	TGGTGAGTCA	CTTTCTCTTA
215761	AATCCTAACG	CCTCCATTTT	CTGAGCATCC	ATTTTGCCAC	CTACACCACC	CACATTCTTC
215821	CTATATGAAA	GAAAATGTCC	TTTATCAAAAT	GGAAGATGAT	AAAAAATGTC	AACGGTTGGT
215881	ATCATTTTTA	ATCTAGTCAC	ACAACCTGAT	TAACACCTTC	CTGGTGGTTT	TGGGAAGCCA
215941	CACGCACAAG	GTAGAGGAGT	TGACTATTCA	CATGGCACCC	ACCGACTTGT	GATGCAGTCT
216001	TGTCCTTCCA	TATCAAGCAC	CTTCTGCAGA	ATCTCTACCA	CCACATCTGA	AGTGCCTGCT
216061	ATATGCAGTT	AAGATGTCAA	AGATAGTGAA	GTACATTTTC	AATGTGTCTT	CATATTTTCAT
216121	TATAATTATT	ATTTCTGTCC	AAGATGCCTT	TCACCTGTTT	TCTACCAAGT	TAATCTTGCA
216181	AAGTTCAATT	CAAATGTTCC	CTTCCCCATG	GGCCCTTCCA	GGGCTTACCC	TATCAGATTC
216241	TGGCATTCTC	TCCTTTATGA	TATTTCTCTT	CTAGGTTATG	TTGGTGTGTA	ATTATTTATT
216301	TCTCCTTTTC	TTTCCACTAG	ACTGTGAAAT	GCTTGAGGCA	AGGAATCCAT	TCTATGTTTT
216361	CATCACTTGG	GTGTCATCAT	GGTGCTGAT	TTTTAGCTTT	AAAATAAAAG	AATCAGTGAA
216421	TCCAGTAATT	AGAGGGGATT	TAAAGAAAAC	TAGTCCTCAG	AATCTTTTAA	CATAGAATGT
216481	TCTTCAAATA	AGGAATTCCA	ATAATAAGAC	AATTTTCTAC	ACTTGATTTT	GTTTTTATAG
216541	CCAAATGGTG	TCATTAAATA	TAGTCCTGGC	CTGAATGGCT	TTCTCATTAA	TGATGCTAAT
216601	TATTTTGGTT	TGTACATGTT	AACCAGGTAT	TGTACAAAAA	TATTTCTTTT	GGGAATCCAT
216661	AATGGATGTA	TGGCTTGAAT	ACAAATAATA	CTGTCTCTTG	TAAGTGCATT	GGAAATTTTT
216721	CCCTGCCACA	TGATTTTCATG	GAAGGTTGTT	TCGTGTATGT	ATGACTGCAA	ACCTGACTAT
216781	TCAGATCTTC	CGCAACAAGA	CAACTTATGT	GTGCATTAAG	AAGTTGCTGC	CTAAAATACA
216841	TAACACTGTA	ATCATTGGAG	ACTTTAAAGT	AATTAATCAG	CTATGCAATG	CCACGCTCCT
216901	GTTATCTCCA	GAGGGCTCTG	ACATTGACAA	ATGGTGGCTT	TCTATTTTGA	ACGTAATATC
216961	TAAAAAGCTT	TAACAGGTTT	GTAGAAGGAT	TGAAAGAAAG	AATGGGAACA	TTTAGGTCCT
217021	TATGGTAGAA	TAAGCATTAA	TTGATTAGTG	TGTAGAAGGG	AGAGGCATGC	CACCTCAGAG

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217081	GAAACTTCCT	TCCCCAGTA	AACAAATCTA	CCTAAAAACT	AATTTTATCC	CTTCTTCCCA
217141	GGTAGCACTG	GCTGTGTCTG	CTGTCTCCTA	TGGTTCACAG	TGATTTATGA	TGACCCCATG
217201	CATCACCCGT	GCATAAGTGT	TAGGGAAAAG	GAGCACATCC	TGTCCTCACT	GGCTCAACAG
217261	GTACAGTGCA	CACCTTGTA	CTGTGGCCCA	TGCAGAGGTC	TCTAGGGCAG	GGTGTGGATC
217321	TCCTCTGAGA	GGCACCATCT	TGGCTGCTCT	AATACTCATG	CTGATTAGAT	CTTCTTTTTC
217381	AGCCCAGTTC	TCCTGGACGA	GCTGTCCCCA	TAAAGGCGAT	GGTCACATGC	CTACCACTTT
217441	GGGCCATTTT	CCTGGGTTTT	TTCAGCCATT	TCTGGTTGTG	CACCATCATC	CTAACATACC
217501	TACCAACGTA	TATCAGTACT	CTGCTCCATG	TTAACATCAG	AGATGTGAGT	TTACTTCCTA
217561	TACTTCTACG	AAAATGATAA	TGGTAATAAG	GAGAAACAGT	TCTGTGTTAC	CTATTACATT
217621	CTGGCTTTTAC	ATATAACCAT	TAATTTAACC	TTCACAATGA	CCTTGAGAGA	GGCATTGTTA
217681	TAATTCCTTT	TTACACAGATG	TGGAAACAGG	ACACTTAGAG	GTGAGATAAC	TTGCCCCAGG
217741	TTGCACAATA	CTAAGTGATA	GAGCTGCTGC	AGCATCCATA	TTCTTAACCA	CTATGCTATA
217801	CTACCACACC	AGCTGATTCC	AAAGCTTCTT	TTAGAAATAA	TATTGCTGGG	CCAGGCATGG
217861	TGGCTCATGC	CTGTAATTCC	AGCACTTTGG	GAGGCCGAGG	CAGGCAGATC	ATGAGGTCAG
217921	GAATGCAAGA	CCAGCCTGAC	CAATATGGTT	TACTAAATAT	CATCTACTAA	AAATACAAAA
217981	ATTAGCCAGG	TGTGGTGGCA	GGCACCTGTA	ATCCCAGCTA	TTCAGGAGGC	TGAGACAGGA
218041	GAATCGCTTG	AACCCAGGAG	GTGGAGGTTG	CATTGAGCCA	AGATCATGCC	ACTGCACTCC
218101	AGCCTGGGCG	ACAGAGTAAG	ACTCCGTTTT	AAAAACAAAA	AACCCAAGAA	ATTAATATTG
218161	CTTTTATCTG	GAGCCAGAG	TGATGCAGCT	TCTGGCCCTC	TTATCTGAGA	CAGTGTCTCT
218221	TTAGTGTGAA	AAAGGATGCT	AATTTTCCCC	CAAACAACCC	ACAGTATCAT	GGGGGTAAAGT
218281	TAATGGCTGG	TCTGTGTAAC	TGACAAATTT	TGGTGCTAAC	GTATCTCTAT	AACTACTCTG
218341	TATAAACTTC	CTTCCTTCAG	AGTGGAGTTC	TGTCCTCCCT	GCCTTTTATT	GCTGCTGCAA
218401	GCTGTACAAT	TTTAGGAGGT	CAGCTGGCAG	ATTTCTTTTT	GTCCAGGAAT	CTTCTCAGAT
218461	TGATCACTGT	GCGAAAGCTC	TTTTCATCTC	TTGGTAAGGA	TAAGCGTGTG	GGCCCATTTA
218521	ACCAATCCCT	TTTCTGCACA	TGGTCTCAGA	GGGTTCCCTG	ACAGCATGCT	CTCATTTGCC
218581	AGGGCTCCTC	CTTCCATCAA	TATGTGCTGT	GGCCCTGCCC	TTTGTGGCCT	CCAGTTACGT
218641	GATAACCATT	ATTTTGCTGA	TACTTATTCC	TGGGACCAGT	AACCTATGTG	ACTCAGGGTT
218701	TATCATCAAC	ACCTTAGATA	TCGCCCCCAG	GTAAGAGCTC	TACCTGTTTT	TTCCCTCCT
218761	CCAGACCCCT	CCAGAGGTGT	TAGACCTCAG	TGGTCGCCGT	GAAACTCTTT	AATGTTACTG
218821	ACATTGCACT	AATGGCAGAA	TGACAAATAA	CTACAAATAT	CTGTCTGTGG	CCATTTTTAG
218881	AACAACAAAT	GTGGCATTTC	TAGAACAACA	ATTTCCAATC	TTGGCCAGTA	ATCATTTTGA
218941	CAAAAACCTT	CCCAAGCTTC	CCTAACAGAG	ATTGAACTGT	GTATGCTGGG	AAAAGGCCCA
219001	CACACAGGTG	ATTTGGAAAA	GTTTCCATGG	TGTTGTTTCAT	ATTAGCTACC	ATATATATAT
219061	ATATATATAT	ATATATATAT	ATACAGTCA	AATAAGCCAG	CTCCTGTGCC	AAGACTTGCC
219121	ATATATCAAC	ACATCTAATC	CTCACAGTTA	TATTAGGTAG	GCCCTATTGT	TATCCCCATT
219181	TTATAAGGGA	GAAGGCTGAG	GCACAAGGAG	GTTAAATGGT	GTGACTATGG	TCACATAAAG
219241	GCAGAGCCAG	GATTTGGACT	GGGGGAGTCT	GGCTTTGGAG	TCTGTGTCCT	GCCCGTTGCA
219301	CAAACCTGGCT	TCTCCACTGA	GCAGCCGGGG	TAAAGAAACG	TGGTTCCCAG	AGAGACTGCA
219361	TTGCTCCCTG	GTTATTGACT	TGGTAGATTG	GTAATTTTCA	GTTTGGCAAA	TAGACATTGC
219421	CCTGAATGTC	TTTAGGTGAA	TGAAAACTG	CATTAAGCAA	AATGACTTTG	CCATTAGAGC
219481	TGAATTGCAT	TAAAGTTGAG	TTGCTGCAGA	AGCTGTAGGT	GGCTTTCTAT	ATAAAATCAT
219541	TTATAAAATC	ATCTTCCAC	AGATATGCAA	GTTTCTCAT	GGGAATCTCA	AGGGGATTTG
219601	GGCTCATCGC	AGGAATCATC	TCTTCCACTG	CCACTGGATT	CCTCATCAGT	CAGGTTGGGC
219661	CAGTTTATTG	AACATCTTCA	AGTGGCAGGT	ATTGTTTTAG	GTGTTGGAGA	TACACACGGT
219721	GCTCTAAAGA	TCTGGATGGC	AACACAATTA	CTCTATTTAC	ATGAGCCTCT	AAATCAGACT
219781	CTGGTAGGTC	AGATTTCCCA	GAGGAAGAAA	AATATAAGCT	TATTTTCTCA	AGATGAATAG
219841	ATGTTAGATT	GATTAAAATG	AGCTGTTCCG	GTGCAGAAGA	CAGCACGTGT	GACTTCCTAG
219901	AGGTACATGA	GCATGAAACA	GTTCTTAGTT	ATGACCAGAA	TGAAAGACAC	ATGTCAAGGA
219961	ATAGCAAGAG	ACGAAGACAG	AGGGGCAAAA	GAAGATCATG	AAGAATATGT	TCAGACTAAT
220021	CCAATTTTTA	AAAAATCACA	AAAGGGAAC	AAAGTGTCCT	AGGCCAGTTT	AAAGATAATT
220081	TAATGTCCTG	AAACAGATCG	GCTGTGAGAC	ATTGCAAGGA	GGCTTGCTCG	GTGTTTGGAA
220141	ATGCAGGCTC	ATGAGGAAGA	TGAAAAGACA	GACCCAGGCA	GGGATGGAAG	GACTGACGAG
220201	AACCAACTTA	CAAAGAGAAG	TTTTGTTTTT	ACTACATTTC	TATGTGATCA	AGTTCCAGG
220261	TTAATATTTG	ACTAACTGTC	TAGGAATCCA	CTGTGACTAT	AATGCTGGAA	ATGACTTAGT

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220321 AGGGCTTTCT GAGGAGGGTC ACACAGAAGA CCAAAGAGAA CTCATGTTGA ATTGAGATGG
220381 GTTGTAGTGA TAGTTGTCAA CAGCCAATAC AGAAACAAAA AAAACAAAA CAAACAGCAA
220441 CAACAACAAC AAAAAAAAAAC AGAGAAGACA CAAACACAAT GCCACAATGC CATTTTAGGC
220501 ATAATTTTAA ATGAGTAATA TTATATGTTG AAATCCAAAT TTTCAGAAAA ACATTAGTGT
220561 ATTTTATTTT TGTTTAAAGA AATAACCATC TCAACTCAGA ACCCCATGTG CATTTTGGCC
220621 ATTTTGTTC CAATAGTTTC ATAAACTTTC TTAAGTAACT ACTGCACATT GTTCCTTATA
220681 TTCCTTGTGA TCAACATTGC AATACACAAC TGGGAGGGCT ACTAGAAGG GTGTAGAAGG
220741 AACTTGTGAG ATTGATCATT TTCTCTGTTT TTTACATCTA GGATTTTGAG TCTGGTTGGA
220801 GGAATGTCTT TTTCTGTCT GCTGCAGTCA ACATGTTTGG CCTGGTCTTT TACCTCACGT
220861 TTGGACAAGC AGAAGTTCAA GACTGGGCCA AAGAGAGGAC CCTTACCCGC CTCTGAGGAC
220921 ATAAAGTTAC AAAGTTAAAT GTGGTACTGA GCATGAACCT TTAAACATT TTTACTTCT
220981 CTCCATATTC CTGACCATAG ACTCAGCAGT TCTTAACTCT GGCTGTGTGT TAGTCTTCCC
221041 TGGGGAGCCT TTATAAGACA CTGATACTTG GGACCCACTC CAGAGATTCT GAATGAATTG
221101 GTCTGGGGTG GAACCCAGAT ACTACTAATT TTTAGATACT CCTTAGAGGT TTCTAGCATG
221161 CGCCCGGGT TGACAACAGC TGGACAACT TGAAAAGTCA ATTCATGTGG CCTTTGAATT
221221 TTCCTCATTG GAAAGTACTA AATAAATAAA AATTCATGTG AAAATGATCA CTGATAAATA
221281 TCTTCATGGT GGGGCAGGTT ATTGGATGCA GAGAAGATCT GCTCGGAATT GTAGCCATAT
221341 GTTACAGATC TCAGCACCGA TCGGAAGTGT AAAGCTATAA TCCCAGAAAT TAAAGTTTTT
221401 ATTATTTTTT ATACATTGTA AAACATAGAC GTTTATTTAT GTGATTAAAT TCTATTAATA
221461 TTTACATGCT AAAATAAAAT AGACCATTTT CAAATTATTT AGATCCAGAT ATTTCCATCA
221521 GATTAAACAG ATATTTATTT ATCCTAGCCC AATTGCAAGA GATTAAATGAT GAGAAAATGA
221581 CCAATACAAG ATTAAATAAA TGAGGTTAAC TTAGAAATCA AGGACAGAGA AGATAGAACT
221641 GGAAGGCTTG TATTGTGAGA AGAATGAATG TGAAGGAAGG CAATGTAGAC ACTTCCAGAA
221701 GGGATAGCAA TATAGTTTAG ACCATAAAT GAAAATTGGA GAGAGATGAC AGAGACACTT
221761 TCAAGTGAAA TGACAATTTA TATGGGGGAG AAAAATATTG AAGACATAAC AAGATAGAAA
221821 AAGGCATAGA AATGTATCAC ATACAAGGCA TAGAAGTGTA TCACATACAA GAGAAGTTCC
221881 TTTTGAGCGT AGAAAAAGAT AATTTAACCT TCTTCATATT TTTCTTACTT TCCCAAGATA
221941 CTCAGATAGG CAGCGTCAAC TCTAACAGGA ATTAATTTGG CTCCTAACAC TTAAGACATA
222001 TCCTTTAGTT TGTCTCCTCA CACAGAACTG ATTCTGGTTT TGCCACAACA TGTCTAGAGA
222061 AGAAGTTCCC ACCATATTTT AAATCCTATT AAAAACTGC TTGGACAAGA ACCTTGGGTT
222121 AATTCAGCAG ATGAAGAGAA TCTCCTAATG CAAATCAATG GGTATTTTGT AGCAAGTTTT
222181 TCAGAAAAAC AGAGTGTGAG GCCCTGAGGG TGGTACTAAG ATGAGAACAT TGATTTTGCC
222241 TTCATGATAT TGACAACACA AAGAGGAAAG GGGGTTTGCA GAAACTAAA AGAAGAAGTA
222301 GAAGAAAAAA GAAAGACATA TAGTAATAGG TAGTCAAATT ATGTACAGAA AAAAGAGAAA
222361 AAAAAACAA AAAAGGGTGG GGGACAGACA ACCCACTAA AAAATGGGCC AATGACTTGA
222421 ACAGGGACTT CATAAAGAG AAAATGTAAG TGGCTCCTTA ACATATAAAA AGATGTTCAA
222481 CTTTATTAGT CATTACAGAA ATGAAAATCA AACTACAAT GAAATACCAC TATAAATTA
222541 ACTAATGGAT AAAATGAAAG GAGATGGAAA ACAAATGTT GCCAGACATG TGGAGCAACT
222601 GGAACTTTCA TACGTTACGA ATGTGAACTT TGGAAAGCTG CTCGGCAATA TCTCCTAAG
222661 CTAATGTAC AATCCAGTG ACTCAACAT TTTACTTAGA AATGCACATA TACATCCATA
222721 AAACATGTAC AACAAATGTT ATAGGAGCAC TATCTGTAAT AGCCTGAACA GGAAGTTGTC
222781 TGTTAAAAAA AGAATGAGTA AATAAACCAC GGTCTATTTG TATAGCAATG AGAATTAACA
222841 GACCCCAATA TATAATAGAT GAATGGGTCT CATAAGCACA ATATTGATTA AAGGAAGACA
222901 AAACGCACAT TCTTTTAAAG GTTTATAAAA TACTTTTAA AAACAGCTAC AACCAATCTG
222961 TCCTGTATAA AATCAGTGAG CGATTCCCT TGTGCAGGGA TGGGGTGTGT GGCTGGATGG
223021 ATGGTACTTA AGAAGTGCTC CTGGGTACT AGAAATATTT TATTTCTTGA CTTGGATGTG
223081 TGTTTACTTT GTGAATATTG TACATTTATG ATTTGTGCAC GTTTATGAAT GTAGAAAAATA
223141 AAACAGAAAG CAAATTCAA GTATCATCCT TTTGAGAGCT TCTGCTCTGA CTTCTGTTTTG
223201 ACCAATGGAG CAGTTGGGAA GGGGTCTTGG TCCTTCGGTC CTTTGCTTTT TTTTTTTTTT
223261 TTTTTTTTTT TAGACAGAGT CTTACTCTGT CGCCCGGGCT GGAGTGCAGT GGCTCGACTC
223321 TAGCTCACTG AAAGCTTTGC TCCCGGGT CATGCCATTC TCCTGCCTCA GCCTCCCCAG
223381 TAGCTGGGAC TACAGGCACC TGCCACCATG CCCGGCTAAT TTTTGTATT TTTTAGTAGA
223441 GACGGGGTTT CACCATGTTA GCCAGGATGG TCTCGATCTC CTGACCTCGT GATCCGCCCA
223501 CCTGAGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CCGCGCCCGG CCCCTGGTCC

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223561 TCTGCTTTCA TGTTCTTCTT GGTCTGTTC CTCCTCCTCT TTTGTTGGAA CTTCCAGTAT
223621 CAGAGCAGGA AGGAAGGCAA TGGGTCAATC GATGCTGTCA GCTTTTGGAT CAAACTGCAA
223681 GTTCTCAAAC AGCAAATTA ATGAGCTCAG GCTTTGAAGA AACCATGACC CTGAAAGCAT
223741 CAGTTGCTTC CAATTGCATC AGTTGCCACG GGTGATAAGA ACAATGATGA CTCAGAATGC
223801 CTAGGTTTTC CCAGCAGCTT CTCTGAGGTT TTCCAGCAG CTTCTCTGAT TGATTCTCTGA
223861 CAGATGACTT CGGTGTGTCA GACTTTCAGG GTATCTTCC TTATGTGATG GTTTGAGGAA
223921 GAGTTACCAT TCACATTCCT AATGGCTTCA GAATAGATGC AATTGTGAAC TGATAGGAAA
223981 CATTTCTAAT TCATCTCCCC TCCCCATCCC TAAAGGATTG TTTCTAACAA TAGTCATGAA
224041 AATTAATTC ATTTTCTCAA ATAGTTTATT GTCATCTACC TAATGATGAG ATGACTTACT
224101 TTTTCTCCTT GACTGTTAAA TATTATGAAT TATATTAATG TATTTCTTAA TGTTGAGCTT
224161 TCCCTTGAAT ATTCTTTTGA TGTACGACAG AATTGATTG ACTAATAGTT TATTTAGGAC
224221 TTTGGCTGAT GTACTGATAT ATGAGATTGG CTCTGTATGC ATACATGTGT TTTGTGTATC
224281 TTTTTTGTGT CTGGATATGG AGCTTATGCT GATTTCAAAA ACAAGAAAGG AGAACTTTCC
224341 TTTTCCCCA TTACTCTGAA AAAGATTGAC TAGAATGGAA TTTTATAAT TGCTGTTGTT
224401 ATTTGAAAGC TTGAAAGCAT TGGTTGTAA AAATCATGCA GGCTGAAAGC CATTTTGAGG
224461 AGACTTTGAT AACTTTCTCA ATTTCTTCA GTTACTGGTC TTTTAAGGGG TTTTATATTT
224521 TTCTTTGATC AATTTTGACC ATTTATGTTA TCTTGAGGA TCATCTATTT TACACACTAT
224581 TTAAGTATA TTTGCAAAAA TTCAACTGTT TTATCAGGCT ATCTTTTAA TAATATATTC
224641 ATTTATCTA TATCTGAGGT TTTAGCTTCT TTGTACTTCT GACCCAATTG CATGTGTGCT
224701 TTCTTTCTCC TTCATTAGAC TACTTAGTCA TTTACTAATT TTAAGAATAG CTGTCTTTT
224761 ATTTATTTAC TTATTTATTT TTGAGACGGA GTCTCACTCT GTCAACCAGG CTGGAGTGCA
224821 GTGGCGCGAT CTCGGCTCAC TGCAACCTCC GCCTCCCGGG TTCAAGTGAT TCTCTGCCT
224881 CAGACTCCCG AGTAGCTGGG ATTACAGTCA TGCACCACCA TGTCTGGCTA ATTTCTGTAT
224941 TTTAATAGA GATGGGGTTT TGCTATGTTG GCCAAGCTGG TCTCAAACCTC CTGACCTTAG
225001 ATGATCTACC CACCTTGGCC TCCCAAAGTG CTGGGATTAC AGGCATGAGC CACTGCGCCC
225061 AGCCCTGCTT GTCTTTTAT TTTATATTTG ATTAGCTTTA TCTTTTATCA AGCTTATGTC
225121 CTATTTCCCT TTGCTTTACT TCATATAAAT TTTGTTTTGG ATAGTTTATT TATTTTTCAT
225181 TTAATTATGA AACAGGTTAA AGCTTAGAGG AAAATTGCTC CTCTAAGTCC AATTTGTGG
225241 GCAGATTACA TTTTGCTGTG TTGTGCTCCC AAATTCATTG TTCTTTTAA GCTTTATTTT
225301 TCAAGTTAAT AACCTATATA GTAAAAAAGT GGCTGTTGAC TCTCAGCTTT TTTTPTTTT
225361 TTTTTTTTTT GTAGATACAG GGATCTTGCT GTGTTGCTCA GGCTGGTCTG AAACCTGCTGG
225421 CTTCAAGGGA TCCTCCTGCC TTGGTCTCAC AAAATGCTGG GATGACAGAC ATGAGACACC
225481 ATGCCTAGCC ATGTCTCTCT CCTTATATAT AATAAGAAAA CAGACACACT GAGGCATCCT
225541 ATCATCTCAC TCTTGTTTC ACTACTGTTT TCTGGAAGTT TTGCTCTGAC CTTTGTGAGT
225601 TAATGTATTA ATTTTGCAAT GAGTAGTTTC CATAGAAGAA TTATAGCATT TGCATTCTGT
225661 TGGGTATTAT ACTTTTCACT GTTATTTGAA CATAATTTGA GGGCTGAAAC CAAGATGAGG
225721 CAAGTGAGGT GCCCAGGAAG CAATATTTAA GGAGGCATCC TTTCTTAGGC TCATGCAAGA
225781 ACAGAATTGG CACATGAGAG TGAGTGCCTC CTTAATTTTG AGTGCTGGAC ACTCTTGCT
225841 CACTTAGCAT ACCCTGGAC AATGAAGTGT TTTTGTGTTT GTTTTTTCAT GTCCATCCTT
225901 TATCCTTCTT CATCTCAAAA CATTTCAATG GAGTATTTT TTGGAGCAGT ACTTGGATGA
225961 GCCTCTGAGT CCCACAGTAG CTGAGAATTT ATTTCATAGT ACTCTTTATG ATCACTGTGG
226021 AGCCTTAAAA CATTGTAATA TTAACCTAGC TGGGAACAGA AATTTGTTC CACAATTTGT
226081 CTTATTCAGA ACAGTATTGA CTTCTGCTA GTCTCTTCTG ATGTCCAATA TGAGGAAGTC
226141 TAGTTAGCCA GCTACTTTTT GTAGGAGAGC TATGTTTAGG CTAGGTGCTA TAGGATTCTC
226201 TTTATCCTGG AATTCCTTCA CCAAGATGTG CCAAGGTGTT AATCATTTTC TCTTGCTTTT
226261 TGGCTGGTGG TCTTAGAGTT TCCTTCGATT TTGTTTTATT TAGTGATTGT CCTCAATTTG
226321 TTTTCTTTAC TAAGAATCTC TCTTCTATT ATCTGTATGG TAAAACCTTG TTGCCATCTT
226381 TTCTGGTTTC TGCTGACTTT CATTTTGGGA CCTTTTACTT TGCTTTCTCC ATGGACTTTT
226441 TGGTAGTGGA GGCAGGCAA CACTTTCCAA AGTCTTTCTC AATTTCCATC AATTTCAACT
226501 TATTTCTTAA AATTGCCTCA GAATGTGCCT ATGTCCACAA TATCCCTCCT TCCACTTTAG
226561 AAAGGAAAGG CATCCACACT TTATTTAGGT GCAATGCCTG AAGTGTAAC ACTTTCTGGT
226621 TGTCACAAA GGAGTACTTC CAAATATTGG TTTGGGGATA ACCTGCTAAT GATTAACACA
226681 TTCACCTTGG CTCTGGTTT GCCTGCTCCC TCTTCTTTA TCTGCTGTGT GTATTTTTTT
226741 TAATCACTGA GAATATGCAC AGTATTGTAT GTTTTATTAT AAGAGAGGAC TGGCCAGAGT

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226801 GGAATGTTT TGAATTCAGA ATAATGAAG CAGTACAGGA TAGGAAGTCA TTCTTTCAAA
 226861 TGAAGCTGGC ATATTTTCCC AGAGCACCAA ATTTCAATAT ATATTTAAAA AACTTGATAT
 226921 GAATGATACA ATAAAGTGGT TAGAACTTTT ATTAATAATA ACTTATGTCA TGAAATACTT
 226981 ATTCTAATTA TAGTCACTCT TCATCTTATT TCATCTTATA ACATGTTTAA TGTTTTCTTT
 227041 TATTTACAAA ACAATTTATT TTTTGATGAA AAGTTTTAGA AATCAAGTTA AAAATATTCA
 227101 AAGGAATGCC TAAAGTTTTC AAAATTCTTT TACATGTTGT ACAATCAAAA GAGTCTGAAG
 227161 ACCATTTAGC TATCCAAATT GTTTATTTTT AAGCAGTATC CCTTCTAATA TTTACTATTT
 227221 ATAATCCTTA AAAATTTGCC TTAGCACAGG AGAATTGCTT GAACCCAGGA GACGGAGGTT
 227281 GCAGTGAGCC AACACAGTGC CACTGCCCTC CAGCCTCGGC GACAGAGTGA GACTCTGTCT
 227341 CAAAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA AAAA
 227401 CGCCTTAACA TTATTTGTTT ATTAATAACT TTCTTTAATA CTACTAGTTT CCCTTTCCCTC
 227461 TCAGCCCATT GTCATATTTT GATTTTTATC ACTTGCTTTG TAGGACATAT GAGGTTTGTG
 227521 TTTTTTTTTT TTTTGGGAGA TGCAGTCTCC CTCTGTTGCC CGTGCTGGAG TGCAATGGCG
 227581 CAATCTGGC TCACTGCAAC CTCTGCCCTC TGGGTTCAAG CAATTCTCCT GCCTCAGCCT
 227641 TCCAAGTAGC TGGGATTACA GGCACCCACT ACCACGCCTG GCTAATTTTT GTATTTCTGG
 227701 TAGAGACGGG GTTTCACCAT GTTGGCCAGG CTGGTCTCGA ACTCCTGACC TCAAGTGATC
 227761 CACAATCCTT GGCCTCCCAA AGTGCTATGA TTACAAGCAT GAGCCACCTG CCCAGCCAGA
 227821 ATATATGTTT ATTTTGAGTC CTTTAAACAA GTCATAAGAA TTTTAGGAAT TCAGTTACTT
 227881 TCTTGAGAAA ATCTCTGAAA AGATGCCAAT AATTGTAGC CAATTATATT GATTTCTCTT
 227941 TTTTATATTG AGAATTGTTT TTTAAAAAGT TTGTATGTGT GAAGATTTTT GCACTGTAGT
 228001 TAAAGAAACC ACCTGTGTGT TGGTTAAGCC ATAAGTACAT GTATTCAAAT AAATTGAGGT
 228061 GGGGTTACTC TGAGAAATCAA AGGAAACCT GAAGAAACAG GCAGCCTCAA AAGGTTCTAG
 228121 CTGTAGCAAC TTGCTCCATT GTTGAAATAA ATAGGCTTGA ACTTGATTTT TCCCTCTACT
 228181 CAACATTTAA GGTCTCAGAA GATAATATAA TTGGTGAAAT TTAAGTAAAG TGCTCACTCT
 228241 TTTGCTTTAA CAAACCCTAG AGAGCTGGTA GGCAGAGCCT CAACAGACCG TTTTAGCTTC
 228301 CAAAGGGAGT TCAGGACACC ATGATTCAGC ACCACAATAC ATCACACATA ATTGAGAAAA
 228361 GATAGTTCCA CCAATAAAG TTGAAATGCT GACAAGAAGG GGTAAGAAAT CTTGGAAATA
 228421 AGTTTATATA AAATTTATTT TTCTTTTTT TATTGTTATG GAATAGGACC AGTTCTACTT
 228481 AAGCCACCCA TTTGCCAAAA TAAAGTGAGA ATCGTTTCTT TTGGGGACTC CTCCTTGTAG
 228541 CTCCAAGTGC CACTAACAAT TCTTAGGACC TGAGCTATAA GCCAGGTGAT TTCAGTTAAT
 228601 ATGATCAATT ATTTCAATTA AATGGCTCTA ATGTGCAGAG GGAACGGAGC CCATCAGCAT
 228661 TCCCTGCAGG GAACTGCAGT GCCTTTTATC AACTTGAACA GCTAGCTTTC AACTGTTTTG
 228721 AAATCACTTT CAGGGTGGTC ATGTAGTTGC TTTTTTGAAA TCAGAAGATG ATTCTGCCTC
 228781 TTTTAATATG TGAATCTCA GATTCAGAAA GTGCTCGCTA GTCTTAAGAG TGAATTACCC
 228841 TCAGTGGTCC AGCGCTTATG AACCACATC TAACCCTATC CCCTGGGGGA ACTATCAGAG
 228901 AAATTGGTGC CATGGACATA AGAGGAAGGC ACAGTGAAGC AGAGAGCCCC GCATGATGAA
 228961 AATCAGTGGA CAGCATCATT ATTTACAAC TTTGTAATCAC CCAGGAGCAT GAAAATCCAG
 229021 GCCAATCTGG CACCATGAGC TCTAATTTTT GTTGGAGTTC TTGGAACCGA TTCTGTATGAA
 229081 TGAATGTTTA GCCATTTTAG AGTGTGGCAT ACGTGGCTGC TGGCATAACAG AGGTTGGATG
 229141 TAAACGGGCC TTTGCCCTCT CTTATGAACA TAGACAGGAA CTAAACTGTG TCACATAGGT
 229201 TCCAAATGGT GGCCTGAATA CTATTTACAA CTAAGGTACA ATGAAATTGA GTAAGTCTTT
 229261 TCCTCTTTTG CAGATACCAT CATTATTCAT ATATTTCTTC AAAGTTAACT ATTTGTATTT
 229321 GGTAATTTTT AATAGAAATG TAATAATTGC TTCTCAAGTT TAGTCTTTAG TCTTAAGGTT
 229381 GATGCTCTCC ATGTCCTTCC AAAAAAGGT ATGTTGCTTT TATTATATCC TCGCCTTCAG
 229441 ATGGGATTAT TCCATTTTGT TCTTTGTTAA TATATACTTT GAGCCACTTT TTTTGTGGCT
 229501 CTGGGTGAGA TGCTATAGGT ACAATGACAA GTGATACGTG TGTGTGCCCT GTCACAAAAG
 229561 TGGATAGCCT AAGTGGTGAC TTTTACCTCC ACTCCAAATA TATGTATCAC ACACGAGCCG
 229621 TATGCCAGGC ACCACTCTAG GTGCTAGGGA TACAGCAGTA AACAGACAAA TGCAACCCCT
 229681 GCCCATGTGA AAGAGAATAA GACAATAAAT AAGTAAAGTG CATGTTATAT GGAGGTGGCA
 229741 AATGCTAAAA AGAAAAATTA AGCAGGCAAG AGGACTCATT GAAAAGATGA CATTTGGGTA
 229801 AAAGCCCATG TATATATGTT CTATTGGTTT TATTTCTCTG GAGAGCCCTG ACTAATACAC
 229861 AATGACTTTG AGAAGTTACT GGCTTTTGAT TTATCACACT ATTCGGAGTG CTGAGAGCCT
 229921 TCTTAGTGTG TATTCAGTGT TTTAAGAGAG CTTGTGGATG AATAATAAAT AGGACAAAAT
 229981 TTATCCAAAC TTAAGCCTTG CTTTAGGTAA AAGGGCTCCT CTTACAAGGT AGAAGGTTAT

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230041 TATTTGGCAT TTAAATCCAA CTGAAGACTA ATAAGACTAA TTAATTAAAA GTTTTTAAAT
 230101 CACAACTGGG TGCAAAATAA ATGGAAGTGC CATGCTCGCC AAGTGTGCAT GAGTGGTGTG
 230161 CATGGGAGAC AGCACGAAGC TAATCCCACT CATCTTGACG GTTGCTCCAT TTTTCTCCTA
 230221 AAATCAGTAA GACAGAAGCT GGTCAGATTA TCAAGAGCCC TAGTTAAACA CAGCAGTAGC
 230281 ATTTGGAAGG GGTTGCTCTC ATTAGGCAGT GCCTGACCAC AACAAGAGAT GAACAAGCCC
 230341 TGTATCTGAA GCCATCATGC CTAGTTATGG TCCCCACTG TTCATGATGC CTGAAAGGGA
 230401 GGCCCCCTGC ACCCTAGAAA GCTGGGTGGG TTCTACTGTC TGCTTTACTG CTAAAAACCC
 230461 TCTTCTTTGG ATCTGGACTT TACCCTATC TGATTTTTTT TTCTAATATA TGATTTGGCA
 230521 CTGAGTCTGT CACTGCTGCT AACTCAGCAG TTCTAGGGTC ATTGCCCCAT TGCCTCACAG
 230581 AAAGAATTTT ATAGCTTCCA GCATCCTCTC TCCTTCATTA TACTTTGATT TCAGCATTGC
 230641 TATTTTTTCT CTTGGGTGTT GCAGCTCTCT CTCTCCTTCC CATGTCTTGT TGGTTTTCTG
 230701 CTAACCTCTG CTTTTTTTCT TTTTTTTTTT TTGAGACGGA GTCTGTTTCT GTCACCCAGG
 230761 CTGGAGTGCA GTGGCACAAT CTCGGCTCAC TGCAACCTCC GCCTCCCGGG TTCAAGCTAT
 230821 TCTCTGCCT CAGCCTCCCA AGTAGCTGGG ACTACAGGCG CTCACCACTA TGCCCCACTA
 230881 ATTTTGTAT TTTTAGTATT GCTGTCATCA ATCCACATGT CCAGAAGCAC CTAGAACTC
 230941 TAATCTTTTG TAGGTATCAA ACCCTAGGAC TCTTTCCTCT AATCACAATA TATAATCCCT
 231001 GATTCCCAAA CACGGTCTTT TCATATACAT TTTCCACTGT ACATACTTTC TGACCTGGAA
 231061 AGCTCTTACA CAAACAGGCC CTCCCCTAGG AAGCCTTTAT AAATGTTCCC AGGAAGAATC
 231121 AGTCACCCAA CAGTGTCTTT GTCCACTTTC AGGTTCTACA CCTTTATTTG TTCTATCTGA
 231181 ATGTAATCTC CCAGAGGGTG TTATCATCTT TTTTTTTGAG ATGGAATCTT GCTTTGCTGC
 231241 CCAGGCTGGA GTGCAGTGGC ATGATCTCGG CTCACAGCAA CCTCCACCTC CTGGGTTCAA
 231301 GTGATTCTCC TGCCCTCAGCC TCCTGAGTAG CTGGGATTAC AGACGTGTGT CACCACCT
 231361 GGCTAATTTT TGTATTTTTA GTAGAGACAG GGTTCACCG TGTGGCAAG GCTTTCCTCG
 231421 AACTCCCAA CTCAGGTGAT CCACCCGCCT CAGCCTCCA AAGTGCTGGG ATTACAGGTG
 231481 TGAGCCACCA TGTCCAGCCC CATCTTTTTC TTTTAGTTTA GTTCTTAACA AATAGTCTGA
 231541 CACAAAGTGG ATATAACAAT ATTTTGAATT ATGAATAACT AAATGAATAT TTCCAGATTT
 231601 CCTGGTGCTC TCAAAGTTT ATGTACAAA AGAAAAACAA GTCTAAAATA CCTGCCTCAA
 231661 GTTTTTATCT GTACTATGAT TTCAAACCAA ATAAAAACA GGTGGGGTAA AAAGTGAAC
 231721 AGGAAATACA TATAACTGAA AAATTTTGGT ATGTTAGTAT GATAATACTA GGTCAATTTT
 231781 CCTGTTTCCC CAACTTCATT TTCTATAGCA ATAAAAAGAA ACAAGTAAAT GTATATTAAT
 231841 TTAATTTAAA AGAAGTAGTC TACCATCTCT TCTGTTAAAA AGAAAAAGT ATTTTAAAAA
 231901 ATTATCTCTG GAAGGATACA CAGGGAACAT TGCTCTGGTT TCTTCCAAGA GAGAAATGAG
 231961 GAACTAGAGA GCATGGCCAA GTGGGGTTT GCTTTTGTTT TTGTTTGTCT ATCTGTTAGC
 232021 TTTTATTAT TTTCTTTTGT AGGTTTGAAT TTCAAACCAC ATAAATCTGT TACATGCTCA
 232081 TAATAATAAG TTTAAATAA AACTTTTGGC TGGGTGCAAT GACTTACACC TGTAATCCCA
 232141 GCGCTTTGGG AAGCAGAGGT GGGAGGATAC TTGAGGCCAG GAATTTGAGA TCAGCCTGGG
 232201 CAACATAGTG AGACCCTGCC TCTGTAGAAA TAAACAAAAA TTAGCTGGAT ATGGTGGTGC
 232261 ATGCTTGATC TCCTAGCTAC TTGGGAGGTT GAGGCAGGAG GATCCTTTGA GTCCAGGAGT
 232321 TTGAGGCTGC AGTGAGCTAT AATCACCCAC TGCACTATAG CATGGGCAAT AAGGTGAGAA
 232381 CTTGTCTCAA AAAAAAAAAA AGGGGGGGGG AAACAAATAA ATAAATATAA ACAAACCTTT
 232441 TGTTTCAAAA TATGTAATAT TTAGACTAA AGAATTCTGA ATTGTAGAGC TAAAAAGTAC
 232501 TTAAGAGTTA ATAATTATTG TCTCTTTTAA AAGAATTGTT ATCAAAGTAT AATTTTTATC
 232561 CAGAAAATCA TCCATATCAG CAAGCTAAAC TTTCTCAAAA TGACATATCC ATGTAATTAG
 232621 CTCCCAGGTA ATTAGCAGGC AGCCTCTACT CAGGTTGAGT ATTCCTAATC TAAAAATTGG
 232681 AAATTCAAAA TGCTCCAAAA TCGCAACTT TTTGAATGCT AACATGATTC TCAAAGGAGT
 232741 GCTCATGGAA TATTTAGAT TTTGGATTTT TGGATTTGAG ATACTCAGTA TAATGCAAAAC
 232801 ATTCCAAATC TGAAAAAATC TGAAATACTT CTGGTTCTAA GCATAAGGGA TACTCAACGT
 232861 GTGTTAGCTA ATTAGACCCT TCATGGTCTC TTCTAGACCT CAGCTTCTTC AAGGTAACCT
 232921 CTATCCTCAC TTCTAATAGC ATGAACTTTT CTGTTTTAGA ATAATTTGGA TTTTCAGGAA
 232981 AGTTGCAAAG ATAGTACAAA GACAGTACAG GAGAGTTCCC ATATATCTTT CACCTAGCTT
 233041 TCCCCATTG TTAGGATTTT ACATTATTAT GATACATTG TCAAAATATA GCAACTCACA
 233101 TTGATACATG AAACCTCTATT AACCAACCC TAGACTTTAT GTGGATTTCA CCACTGTTTC
 233161 CACTAATGTT TTCTTCTGT TCCAAGGTCC AATCTGGAAT ACCACACTGC ATTTTCTTGT
 233221 CATATCTCCC TAGTCTTTTT TTGTCTGTGA CAATGTCTCA GTCTTTTCTT GCTTTTCATG

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233281 ACCTTAACAG TCCTGAAGAT CATTGCTTT TTTTCATAA TTACACCGGA GTTATAGATT
233341 TTTTGAAATA ATACCACAAG GGCAAAGGGC CCTTCTTGTC ACATCATTTT AGGGAGAACA
233401 TGATATCCAC ATGACATCAC TGATATTAAC CTTTCATCATG TGGTTTAGGT AATGTTTCAG
233461 GTTTCTCTAC TGCAAAGTGA TTTTTTCCC TTAATTTAGC CCACCTGAAC TTATCAATTT
233521 TGTTTTCTTC CATGACTAAT ACTTTTGTTA TTATAGCTAA AACTTCATTG GGGCCAAATC
233581 TTAGATCATG TAAATTTTCT TCTATATTTT ATTCTAAAAG CTGTGAATGT TTGATACATT
233641 CTAAAAGATG TAATGTTTGA TACATTACAT CTAGTCCTTT GATTTATTTT TAGTTACTTT
233701 TGTATAAGGT GTGAGAGATG TCTCCAGTTT CACTTTATTA ACACATTGTG GTGTTCCAGT
233761 ACTATTTGTT GCTAAGACTA TCTTTTTTCC ATTGATTACC TTTGCCTTAG TTGGCAATAT
233821 TTTTGTTGGT TTATTTCTAG ACTGTTTATC TCATTCCACT GATTGTGTGTC TATCTTTTGT
233881 ACAAACACTGT TGATTACAGT AAGCTTTGAA ATAGTTCATT TTTGTGTGCA ACTTGACTGA
233941 GTCAGGGGAT AACCAGCTAT CTGGTTAAAC ATTATTTCTG GCTGTGTTTG TGAGCGTGT
234001 TCTGGATGAG ATTAGCCTTT GAATAGGTGA TCCTAGTAAA GTAAACTGTC TTTCCCAGTG
234061 TGGATGGCAT TATGCCACCT GATATTCAGG GTCTGAATAG AAGAAAAGGC AGAGGAAGGG
234121 GGAATTTGGG CCTTTTTTTC TGCCTCACTG CTTGAGCTGG GACATCTCAT CTGGTCTCCT
234181 GCTCTTGAAC TGGGATTTAC ATCATCAGTT CCTCTGGTTC TCAGGCCTTC AGATTGAGAC
234241 TGAATCATA CACCAGCTTT CCTGGGTCTC CAGCTTGACG ATTACAGATC ATGGGACTCC
234301 TCATCTTCCA TAAATGCATG AGCCAATTCA GTCTATGTCC TTGAAAAC TG CCCCCTGCA
234361 GATTAAGGCT TTTTCCACT AGGTGAAATA AAGAAGCTTG TTAGACAGAT TTCCCTTCAT
234421 CCAGTGCCCT CTCCTCTTTA AGTTACAACA CATTGGCTAC ACCTAAGTGC AGGGGTGGGG
234481 ATGAGGGTAT AGTCCTCTTG TTTGCTGAGA AGAGAACTGT ATTGGGAAAG CTCTAGAAGT
234541 GTTTGATACA TACATAAACA AGGCATGGTT TTTGCACTTA ATTTACATT ACATTTTTC
234601 CAGAAAAAAA GGAATGTATA GGCATCACGT AACTGTACTA GCTGGAGTCA TTCTTCTGA
234661 TTATCAAAGG TAAACAGTTA TTAATCCTAT ACCAAGATGT CAAGGAGAAG TACTTTTGGG
234721 ACACAAGGAA TTCTCTGGGA GTCCTTACTA CTCTCAAGCC CAGTGAAAAA GTTAATGAAA
234781 AACTATAGTA CCTTCCTATA AGCTGGATGA CTAATTACCA GGCTCATTTA GGAATTTGCC
234841 TTACCAAGTA AAACATAAGG GCAGCTGAGG TGCTGACTGA AGACAAATGG AGCATAGAAT
234901 AAGAGTAGTA AAGAATGCCA AAAATGCTGT CATGTATCCA TTGACAAAAG GAGCTATAAA
234961 GCCTTTAGGT ATTTTCACAC TTGCTCTGTT ACGTAAATGT ATGTGTGTGT GTGTGTGTGT
235021 GTGTGTGTGT GTG

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1 CACACACACA CACACACACA CACACACACA CACAAATGAG GTATATAAAG GGTCTCCTAA
61 AATGTCATCT GATATTTGTT ATTTTCATATT CTCAGATTTT TAATCCATTT AGGTAGGTCT
121 ATTTTAGATA GCCTTGCTCTG AAACAGAGCT GGGACCTGAT GAGTGAAAAT GAGCTCACCA
181 GAAGAAAAAT CAAACAGGCA TTTCAGAGAT TGAGGCCAAG AAGTTAAATG TCTTAAATGG
241 GCAGAGCTTA GCTGCTTGAT GTGAAAAGAG ACCAGCGTGG CTGGAACAGC AAAGGAGAAC
301 AGCAGAAGAG GTGAACAGAG GCCAGAGATG GTCAGTGAGT GGGCCCTTAA GTCATGGTAA
361 GGAGTATGGA GAATGAATTA TTGCATGTAT TGAATATGTA GGTGACGTGA CTCACAGATA
421 CTTTGGATTT GTAGAGATGA AGGAAATGTA GCAAGTGACA CTCTTAGAAT GTTGATTTGA
481 GTAAATGGTA GTGTCAGTTA TTGAACTGGG GAGAACTGGA AGGGATAACA GGCTTAAGGA
541 GCACGTTTAT TCCTGTGTCT TGGAACTGTT TAGGGTGAAA GACCTATTAG AGTTCTAAAT
601 GGAGATGTCA AGTGAAAATG TGGCTACACA CATTTCGATT TCAGAAAAAA GGTGAGGCTG
661 GAGATGTAAA ATTGGAAGTT TACTGCATAT AGATAGTCTT TGGAACCGTA GTATTGATGA
721 AGCCATTAAT GAGACAGAAC AAAGACTAGG GACCAGAGCC AAGCTCCAAG TTTCTAAAT
781 TTAGAGGATA GTATAGTCTG GTCATTTTGA GGTGAATACT TAATAACAGA ACAATTTGCT
841 GAAGTGTAAT TTTAGAGCCC TACACTTTTA GCTCTGACTA TTAACGAATA CAGGAAAGAA
901 TGGATATGGT TATCTGCCTG GTGCTGTGTA AATAATTTAA GCCAGGAAGA GATCCTCACC
961 AGAAACTGAC TATGCTGGCA ACTTGGATCT TAGATTTCCA GCCTGCAGAA TTGTTAGAAA
1021 ATAAATGTCT ATCGTTTAAG CCACAGTCT GTAGTATTTT GTTATGGCAG TCCAAGCTGA
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1141 GGCTTTGGAA ATTGGTGATG GGTAAAGGCT GGAAGAGTTT GAGGTTTATA CTAGAAAAAG
1201 CCAATTGTGA AGGGAATATT GAAAGAAATA TGGACATTAA AGGCAATTCT GGCAGAGGCT
1261 CAGAAAGGAA GAGAGCTGGA CAGAAAGCTT CCATTTTCAT AGAAACTTAG ATTTATAACG
1321 ATCATGGATA GAATATTAAA TATGCTGGTT AAAATATGGA CTTTAGGCCA GGCGTGGTGG
1381 CTCACGCCTG TAATCTCAGC ACTTTGGGAG GCTGAGGGCA CAGATCACGA GGTGCGGAGT
1441 TTGAGACCAG CCTGGCCAAT ATGGCGAAAC CCTGTCTCTA CTAAAAATAC AAAAATTAGC
1501 TGGGCATGGT GATGTGCTTC TGTGGTCCCA GCTACTCGGG AGGCTGAGGC TGAAGAATCG
1561 CTTAAACCCG GGGGGTGGAG GTTGCTGTA CCCAAGATCA CACCACTGCA CTCCAGCCTG
1621 GGATACAGAG CAGGACTCCA CTCCCCCGC CACACACACA CAAAAATAT ATATATATGG
1681 ACATTAAAGT CAACTCTTGT GAGGTCTCAG ATGAAAATGA GGGACAGGTT ATTGGAACT
1741 GTAGAAATCA CTGTTCTTGT TACAATGTGT CAAGAACTTG GCTGAATTAC GCTGTAGTGT
1801 TTAAGTGGAA GAACCTTATA GCAGTAAAC TGGATATTTA CCAGAAGAGA TGTCTAAGCA
1861 AAGTATTGAA GGTGTGATTT AGGTCTCTCT TACTGCTTAA AGTGAAATGT GAGAGGAAAG
1921 AGCCGAAATA AAGAAGGAAT TTTTAAGCAA AACACAATCA GAACTTGGAG ATTTGGGATA
1981 GATTTCTCAA TCTATATTGT AAAAATTGAG AAAGTTTTTC TTGAAGAGGT ATGGTTGAAC
2041 AATGTTTTCT TTTTCTTTT TTTTCTTGGT TTTATTTTAA TTTTATGTT TTTTGAGACA
2101 GGGTCTGGCT ATGTCATCCA GGCTGGAGT CAGTGGCACA ATCTCAGTTC AGTGCAACCT
2161 TTGCCTTCAG GCTCAAGCAA TCCTCCACC TCAGCCTCCT AAGTAGCTGG GACTACATGT
2221 ATGCACCACC ACACCCTGGC TAATTTTTTG TTGTTGTTTA TAGAGATGGG GTTTTGACAT
2281 GTTGCCTAGG CTGGTCTCTA ACTCCTGAGC TCAAGTGATC TGCCCTCTC AGTCTCCCAA
2341 AGTGTTGGGA TTACAGGCGT GAAACACTGA GCCTAGCCTG AACAACCATT TGATAAAGAG
2401 ATAATGGGTG TGACCCAAGG ATTTAATCAG CCATCTCAGC AGAAGCCAGG AAGAGAGATG
2461 GGATTATTCC AGCAGAGACA CTGCCAATTT AAATAACGT AGGCAGAGAA AACAGAAAGG
2521 AACAAAGGAA GGTGTCGAC TTTTGAATT CTATAGAACA GGATCATAGA GCTACCTGGC
2581 TGTCAATGTG TACTATTCTT TAAGAAAAGG AAAGACTGAC CCACCAAGG CAACCTACAA
2641 GATCACTAGG GCTGACTCTT TTTTGTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCAGGTT CAAGGGATT
2761 TCTTGCCTTA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCGAGT
2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAATCCT GACCTCCAGT GATCCATTCT CATTGGCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CCTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGCTGCCT GGGTGGGACC
3121 CCACCAAACT GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGCCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT

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3241 TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTTGG ACTTGATTAG GACACATTAC
3301 ACCTTCCTTC TTTCTTATTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361 CATTGTACCT TAGAAGCATG TAACATTTCT GGTTTCACAC GTTCAAAGCT GGAAAGGAAT
3421 TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTTAG ATGATTTTTT
3481 AGATGACACT TTGAACTTTA GAATTGATGC TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541 TGGGATGGAA TAATTTTTTT TTTTTTTTTG AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601 GAGTGCAGTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATTCT
3661 CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721 TTTTTTTTAT TTTAGTAGAG ATGGGGTTTC ACCGTGTTAG CCAGAACGGT CTCGATCTCT
3781 TGACCTTCTG ATCCGCCTGC CTGGGCTTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC
3841 CATGCCCCGGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901 GGTCAAGGAC AGAATGTTAT GGAATAAAT GTGTCCCCCA AAATTCATTT ATTAATAACC
3961 TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTTAG GGGGTACATA AAATAAAGA
4021 TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCTT TACAGAAGAT GAGACACTTA
4081 GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATACA AACACACAGT GAGATGGCAG
4141 CCATCTGTGA GCCAGGAACA GATTCTCACC ATAAACTATG TTGGCACCTT GATCTTAAAC
4201 TTCCAGGCTC CAAAACCTGT AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGGAAA
4261 AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATT TGTATGGCA GCCTGAGTAG
4321 GCTAAGACAA TGAAGGATGT GGTAAACTT TACGTCCCAA CCACATACCA AAGAGCTGG
4381 AATTTAGCAT GCTTTCTTCT TTCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441 CATGTTGGCT CCTTTACTCT GCCCAAATA CAACTCAAAC AAACAAGTGT AATATAATAA
4501 CATCCAATGA AGTTCGTACA TTTCTCAAC ATGAGTACAG TAATTCAATG CCAGAGAATT
4561 CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621 TTTATTCTTT TTAATATAGA TTTATCAGC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681 GCATTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741 CAACATGGTG AAACCCTGTC TCTACTATAA ATATAAAAAT TAGCTGGGTG TGGTGGTGCA
4801 TGCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861 GGTTGCAATG AGTGGAAATC GCACCAGTAC ACTCCAGCCT GGATGACAGA GCAAAATAAT
4921 AAATACATAA AATAGATTTA TCAGTTTATC AATAATATAG TTTTCTTTTC TAGGTGTAAA
4981 TATAGGTAAT GACTGTCTCT TAGTACATTT TCTCATGATG CTCCTCTTAC TTGGTTTGGT
5041 ACAATATTAA GTATTGAAAT AAAATAGAGA ATCCTGTCTG TACACATGAG CACTTATTCC
5101 ATTTGCTCAT CTCCAATATG CACGGGAAAT TCTCAAATTG CTAATAATCT TGTAACACAC
5161 ATGCATTATA TTCAACAGGA ATATATAAAT TTATAATTAT AATTTAGGAT CAACAGATGA
5221 CAAACCTTTA GAAGGTTTGT ATTTAACCTT AAAATATAAT TTTTAAAAA TTGGTTATAA
5281 AATTTCTAAT ACTTTCTTTT TTGTGACCTC AAGGGGAAAA TATAATTCTT ATAAAAGTTC
5341 AAATGATTTA CAGAATACAA AAAGTGAATA GAGATGATGA ATGAATTAAA GGAAAGGATA
5401 TTGCTACATA GATTTGGAAA TTTAAAAAGG GAAATTACGA TTGTTGATTT TGTGTTAAAC
5461 TGATCTGCTT TGTTCAAGAT ACCTTATGTA CCAAAAAATG ATTTTATCTC AGCCTCATAT
5521 CTCAGTAAAT TCCTGAGACA AACTTTAGTC CCTGGTGGCC AGGTGCCTTT GGTAATTGGG
5581 AGACCTCTAG GTTTAGCATC CTCATCCACT CGCCCCAATT TAAATAGTCC TCCCCAGGGC
5641 CATTCAAGCA AGGGAGATGA AAAGTTGCTC AAGAGTTGGA ATCCAATTGA AGCTACCGAA
5701 ATTCATTGCT CAATAGATAA TTTTCCCTGG AAGTAACTAG GGCTTTTGAA TATAATAGTG
5761 GGCATTTCOA AGTAGAAGGT AAAGTATTTT GGAGATGAGG AGACAGGACA GAGCTACGAG
5821 GAATGTCTTT TGCTCAGGGA CTAGGCTCTT AGCAGTACCT CTTAGGTAAG AACTGGTTAA
5881 CTGGCACCTT CTGTGTTTCT CTGAAGCTCC CTTTGCTTAG GGACTAGGCT CTTAGCAGTA
5941 CCTCTTAGGT AAGAACTGGT TAACTGACAC CTTCTATGTG TCTGAAGCTC CCAGAACAAA
6001 CTGCCAATGA AATTTGGATT TTTGGAATAT AGTTTCTTTT TTGTTGTTAC TTTTGTTTT
6061 GTTGTTTTTT TTTGAGAGTC TCACTCTCAC TGCAACCTCC CCCTCCTATA TTCAAGTGAT
6121 TCTCTTGCTT CAGCCTCCCC AGTAGCTGGG ACTACAGGCG TGCACTAGCA TGCCCAGCTA
6181 ATTTTGTAT TTTTATAGT AGATGGGGTT GGTTTTTTTT TGAGACAGAG TTTCACTTTG
6241 TCGCCCAGGC TGGAGTGCAG TGGCAGCATC TTGGCTCACT ACAACCTCCA CCTCCCCGGG
6301 TTCAAGTGAT TCTTCTGCCT CAGTCTCTG AGTAGCTGGG ACTACAGGCG CCTACAGGTG
6361 AACACCGCCA CACCTGACTA ATTTGTGTAG TTTTATTAGA GATGGGGTTT CGCCATGTTG
6421 GCCAGGCTGG TCTCAAATC CTGACCTCAG GTGATCTACC CACCTCAGCC TCCCCAAGTG

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6481 CTGGGATTAC AGATGTGAGA CACCAGATCA GCCTCAGAAG ACATTTTCTA TTGGAAAGAG
6541 AAAACACTAT TAGCAACCTA TTAGTCTAAT ATTTAATACT TAATGTCTTC CTTAGTAATA
6601 AACCAACTCT CTACAACAAA GTGCTTCCTG GCTGCCTAGT CATTGATTCA TTCAGTTCAA
6661 CATTTTCTCA ATGCCCAACA GCCAAGTGTC TCCTGTATGC CAAGTTCTAT GCTGATTATC
6721 AGTATTTGAA TAAGAGGGGG TCTACATCTT AAGTACTGCT TAAGATGAAA GCCTCTAGGT
6781 TAACAACTT AACACAATGT ATCATTCACT ACTAAATAGA CCGAATACAA AATCTTGTTA
6841 TTGGAGCCCA GAGAGAAGAA TTGAAATTCA AGTTTTCTCT CTCTCCTTTT CTCACCTACC
6901 ACAATAAGTC AGTTGCACCA AGTCTTGTAAG CTCTTTACTG AGCCATGTTT TCACGTGTCC
6961 CTTTGTTTTA TTTGCCACAC CCTAAATAAA AATTGTACTG GCTTTTTTTC CCTGGGTTTA
7021 CAGTATTAAT ACATTGTCAA GATTTACCTC TTCGTGTAGA TTCCCTGGGG AAAATTACCT
7081 TTCCTCCTTC CCTTAAATTC TTCAGAGGTT AGAAAGCCAT TAGTAACATT CTGGTATGTG
7141 GACAAAGTTT ACCCATTATG TATGGATGTT TTAGTCTTTC CATTTTCTG ACAATAATCT
7201 CTTAAGGAGG TGTGGTTATA GAATAGTCAG CTGTTATAAG TACTGTTTTT CTGGCCTTAC
7261 AACTTAAATT CTTTAAAGCTG TTTCTTAGTT TGCTCATCTC AAAATTCGGA ATAAGGATAA
7321 AACCTATCTC TTAGATTGTT GGATTAAATG AATTAACATA CTGGAAGCTC ATGAAATGTG
7381 CCTGGCACAC AGTAGTGCTT AATAAACCAT CTCTCTTATT CAGCCTGTTT TCTGATTTC
7441 GAATCTACAC TTGCTGAGCC AGGTTCTTTT CATTTCAGG TGAGCAAAAG CATAACAAGGA
7501 AGAGATGGAG GTAGGAAGAG ATTAAGCCCT AGGCCAAGGG AGCTGGAATC AAAGGCAATT
7561 TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA TTCTAACCTT AGGATCGAAA
7621 TTCTCGGACA TACAGGAAAT GCTGGGGGGG GAAAAATCCG GTCTTCTCAG CCCAAGAGCC
7681 ATGTGAAACC AGACCTTCAA ATCTGATGAT TCTCAGCCCA GCTGCCCAT AGAATCGTTG
7741 TAATTTAAAA ATACCCTCGG AAAATTCTAA TATGTGGCTA TCAAAGGTGA TCATTGTCTT
7801 TTATGCCACT TTGTTTTTAC CCAAATGGGA CATCCAACCC TTTTCTTTG AGAGTAGTTG
7861 TAGGGAAAGG AGGGGGTGGA GGGAGGGAAG AGCGGAAAAG GCTGGATCCG CCCCAGCCG
7921 GTGTCAGTAT CTGGGAAGTG GGAGGCGCGT CAGCAGTAAA CAGCTTCTGC TAGGATTATT
7981 ATCTCCTGCC ACACACTCGG ATTTGAAGGC TCCAAACGAA ACAATGCAA ACGCTTCAGT
8041 GGAGTTCCAG AAGCGTTAGA CTAACGACT GGGTCTGTTT GGCCAGTCTG AGCAGCTGGG
8101 CGCAGATGCA TAGGCAAGAC TTAGCCCGCC TAGACTTTTC TGCCCACTTA ATTCCGATCA
8161 AAGCAGAAAC CGGCCGGGCG CGGTGGCTCA CGCCTGTAAT CCCAGCACTT TGGTAGGCAG
8221 AGGCTGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CCGGCTAACC TGGTGAACCT
8281 CCGTTTCTAC TGGTGGCGGG CGCTTGTAAT CCCATCTACT AGGGAGGCTG AGGCCGGAGA
8341 GTCGTCTGAA CCCGGGAGGC GGAGTTTGTA TGCAGTGAGC CGAGATCGCG CCACTGCATT
8401 CCAGCTTGGG CAACAGGAGC AAAACTCCGT TTCAAAAAAG CAAGCAAACA AACAAAAAAA
8461 TGCAGAAACC GAGATCCGGA AGAAAACCTC GGCAGAGATC ACAGAATCCA GGAATATAGG
8521 TCTCTAGAAA TTTGTCCATG GTCCCAGATC TCCATTCTT GTGGGTGGGG CAGCTGTTAC
8581 CAGATCCCTA GAAGCAAAGG TTTTTTTGGG GGACCGTGTC TCACTGTTGC CCAGGCTGGA
8641 GGGCAGTGGC ACGATCTCGG CTTACTACAA CCTCCGCCTC CCAGGCTCAA GCGACTCTCC
8701 TGCCTCAGCT TCAAGAGTAG CTGGGAGTAC AAGGTATGTG CCACCACGCC CAACTTATTT
8761 TTTTATTTAT TATTTTATT TAGTAGAGAG GTGTTTCACC ATGTTGGCCA GGTAGTGTG
8821 GAAGTCGTGA CCTCAGGTGA TCAGCCCCCT CGGCCTCCCA AAGTGGTAGG ATTAGAGGGG
8881 TGAGCAGAAA GCAAAGGTTT TTGAGTGGCC ACAGGCCCCA CTCTATTTCC TTTTCTGCCT
8941 GTAATGGCAA CTTAGACGCT TGAGCTTCTT AAAATACAAG AGTAAGTTGC ATGTCAGGCA
9001 CCGTTCTACA TTAGGGACAT TAGTCTGTTT TACAGACACC TTTCAACTCC CTGGTTAACT
9061 TTTAGGTAAT ATACTCTGCA CTTTAGCAGG AATGGAACCT ATAACCTCA CAGAAATTAGG
9121 AAAGTGAGGC TGCTACAGC CTAAATTGAG AAAAAAATAG ACGGGGGACT AGTCGGAGGA
9181 CCAAACAAGG TTACCAACAC GTTAGAGTTT TGCCCTCAAT TTACATTTT AAAGTAATCA
9241 CAACGAAGT TTTAGATCAC GAGGCATCCC TGCATGTAAA CTGTTAGGCA CTAACATAGG
9301 TCGATCTTAC AAAGCATTAA CTAGAATATT TCTTTAGAGT ATGATAGTAC GTAACGTAGG
9361 TACTATTACA TACAAACAGA CCAACCTTTA GTAACAGCGC TCCCCAAAAA CCGAAAAGCA
9421 GTAATACGCT TTGCTCAAGG TTGGCATAAA ATTAACCTAC CTTAGTGCCT TTTTCTCTT
9481 TACCTACAAG CAGTGAGGTT AGCTCTTCTT TTGAAACGGT AGGGGGGCTC TGAAAAGAGC
9541 CTTTGGGTTT GATAGCGTTT CCGGGAGCTC AGATACCTGT CAAATCACTT GCCCTTGGCC
9601 TTGTGGTGAC TCTCGGTCTT CTTAGGCAGA AGCAGGCCT GGATGTTAGG AAGGACGCCG
9661 CCCTGAGCAA TGGTCACCCG GCCTAGCAGT TTGTTGAGCT CCTCGTCGTT GCGGATGGCC

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9721 AGCTGCAAGT GCGCGGGGAT GATGCGAGTC TTCTTGTGTG CGCGAGCCGC GTTGCCGGCC
9781 AGCTCCAGGA TCTCGGCGGT CAGATACTCT AACACCGCCG CCAGGTACAC CGGCGCGCCT
9841 GCCCCAACCC GCTCTGCGTA GTTGCTTTTA CGGAGCAGGC GGTGCACTCG GCCCACCGGG
9901 AACTGGAGAC CAGCGCGAGA AGAGCGGGAT TTCGCTTTGG CGCGAGCTTT GCCTCCTTGC
9961 TTACCACGTC CAGACATTGC AATCAGACAA AAATCACCAA AACCAGCAGC CTAAGCTCAC
10021 GAGAAAACAA ACAAATCAA GAAATATGTA AAACATGGCC GCTTTTATAG GTAGTTCCTG
10081 GGGAGTAAAT CCGACTTTTT GATTGGTCCG TAGCAAATGC TAGTCAGATA GCCAATAGAA
10141 AAGCTGTACT TTCATACCTC ATTTGCATAG CTCTGCCAC GGATGACAAC TGTGTAGTTT
10201 GTCTTCCAAT TAACTAAGAG GTACTCTCCA TCCCTCATTA GCATAAAAGC CCTATAAGTA
10261 GCAGAAATCC GCTCTTTACT TTCGACAT TTTCTGGTGT TTAAGATGCC TGAGCCAGCC
10321 AAGTCTGCTC CCGCCCCGAA GAAGGGTCC AAGAAGGCAG TGACCAAAGC GCAGAAGAAA
10381 GATGGCAAGA AGCGCAAGCG CAGCCGCAAG GAGAGTTACT CTGTGTACGT GTACAAGGTG
10441 CTGAAACAGG TCCATCCCGA CACTGGCATC TCTTCCAAGG CCATGGGCAT CATGAATTCT
10501 TTCGTTAACG ACATATTTGA GCGCATCGCG GCGGAGGCTT CCCGCTGGC GCATTACAAC
10561 AAGCGCTCGA CCATCACCTC CAGGGAGATC CAGACGGCCG TCGCCTGCT GCTTCCCGGA
10621 GAGCTGGCCA AGCACGCCGT GTCGGAGGGC ACCAAGGCCG TCACCAAGTA CACCAGCTCC
10681 AAGTAAACAT TCCAAGTAAG CGTCTTAACA CCTAACCCCA AAGGCTCTTT TAAGAGCCAC
10741 CCAGATACCC ACTAAAAGAG CTGTGGCCAG ACGCCAAATT TTATTGGCG GCGGAGGGGT
10801 ATTAGAATGT AGGAACTGGA GAGGGTGGG GACAAGTGT GCAGCTTAGA GAGGGACAAA
10861 GGGTCTGAA CCCGAAAGAA GCCAGCCATT AAAAATGGGT TTGGGGTCAA TTCGTTGTGC
10921 TTAAATTTAA AATGGGGACA AGCGGCCATT TTGCTAACTC GGCGTTCCCG GAAGAAACCG
10981 CAGGCTCGCT TAGGTTTCAG ACCCAGCTGT CTGTCCCTGT CTACGTCGCC AGGATCAACG
11041 GTTGCCGTAA TGTCATAATT TCGCCACCAG CTTCTAGCCA ATAGGCTGTC CTGTCAATTT
11101 AAATATTAAC CAATCGAGGG AAAGCTGTTT TGAGACTCTG ATTTACATAG CGGACCGGAG
11161 TGGGAACCTG GGCAGTAAT GCCTAAGGAA GGACTCCCC TCTGTTTTCG TGGCGCACAC
11221 CTTCTAGTA TACTGAAGGG TGTGTCTCCT GGGTTTCAA CTGCCCCGGT AATAGTCTTT
11281 TAACCTAATA TCGTTCAGTT TTGATAACAA CACTAAGGCA GTACAGAACT AAAGATGTAA
11341 GCACTGCGCC AGATGTTGCT TCATACACT TATTCTATTC AACTGGTTTA TTCAAGATTCT
11401 AAATCAAATC AAATTTTGCT TGAATCCAG TGCTCAGTCA GCCATAAATG GTGTGTTGCC
11461 TGATTGAAAC TTAAAATCTC CGTAGGGGGC TTGTAACATG CAGAAAAGTT TGAAAGTTGC
11521 TTTAGGAGAA GCCAACTCTT AACTGCTGGG TAAATTGACA AGCCTTCGAA CACTGAAGTG
11581 AAGGCCAGTA AGGACTAGGC GCTGGGTGGG GGAGAATGAA GAGGAGACGT CATTAAACTT
11641 AGCACATACA CTGTGTCTCC TAGAGGACTC TCCCTTCCTA GACAACTGCA GGCCGCTTTG
11701 TGGCCTGGGA AATTCCACAT TCCCTTAAGT ATTTTACTCA TGGTCTTTTC CAGGTAAAGA
11761 TTTTAAGATG AAGGGTTAGA CGTAGTCTAC CTATCTTTT ATTCAAGTCT AGAACACGTT
11821 TTTAGCACCT AGAAGTTTGC TTTCTCCATT AAAAACCAGG AATATACAAT AAATAAAATT
11881 AGTGTTAAAG CAGATTTTAA CAAACTTAA TACCATGTAA TTTAGGTTAC AGTTACTTAA
11941 CATAAGGACT GTGTGATCTT AAATCTGCAA TTTCTTTCAC ACCTGGGAAA TAAACTAAGG
12001 CCTGTCTTTG GTGCCAGACA AGGCCCTATA CTTGAACACT GCTGTGCAAT CACAGGCTGC
12061 CTTGCCCTAGA TAACTTATCT GAGAAATCT GATGAGAAAT GAAATTTCCA GAGTCCCTCA
12121 CAAGTAAATT TTTTCTCTT TTTTCTTTT TTTGAGACGA AGTTTCTCTC TTGTTTCCCA
12181 GGCTGGAGTG CAATGGCGCG ATCTTGCTC ACAGCAACCT CCGCCTCCCG GGTTCAGCC
12241 ATTCTCCTGC CTCAGCCTCC GGAGTAGCTG GGATTACAGG CATGCGCCAC GACACCCTGG
12301 CTAATTTTGT ATTTTATAGTA GAGACGAGGT TTCTCCATGT CGGTGAGGCT GGTCTCGAAC
12361 TCCGGACATC AGGTGATCTG CCCGCTTGG CCTCCCAAAG TCCTGGATTA CAGGCTTGAG
12421 CCACCGCGCC GGGCCTAAAT GGTTTTTTT TTTCTATGC CTCTAATGGA CCTGGTCACT
12481 TATTCCCATC CAGACTGACC GCTCTCCTAC CTGCCAATA ACTAATCAGT GTAACCAAAA
12541 TCTGCAACA AAATTCAGTA TTCTTTCCCC GCCTTTTCCC CTTTCTCTTA CATAGATTAT
12601 GTTTTTGCCT GTGTTAGATG AAATAATTCT ATTGCTTGT CTCTCTCTG TACAAGTACC
12661 CAGTAAGCAA ATTATTAAT TCTTGGTCAT TTATTTCTGA ATTTTCCACC AAGACAGTGT
12721 TTATGTGAGT CATACAATAA GAACCAACAG AAATGTGTGT CTTGGAAACA GGTGTCTAT
12781 CCCTGGACCC TTTGAGTTTT CTGTTCACTT TCCTTTGGCT TTTGCATGCT AAAAGTTTAT
12841 CGTCCGCGTT TGTTTGT TTTTATTCTA ATTGGACTTG GCTGATTGGT TGCATATTGG
12901 TGGCAGTAGT AGAATTTGAA TTCTGGTTTT CTGGTCACAT CATTAGTGA TTAGTCAGTG

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12961 GAGAGGACAG GAAATCTGGT TTATTTATTA ACCTTTTTTTT GGGGTGTTTTT TGTGTTGAAGA
13021 TGTTGATATT CTCTGTGAGG ACACAGGGTT AGAGTTGGTG TTTTCTTTTC TGACTTTTACA
13081 TGGGATTTGA TGTTTGTGTC TTGTATGCCT CTTTCCACCT TCCAAAACCT GTCTTTTTTG
13141 AGTCCAAATA GTTGTGATA TCTGCAAAAC CAGTATTCCT GTGTAAAGAT GATATGAATA
13201 TAAAATGGCT GCCCTGTTAT AACTTTTGAC TTAAAGAAAG TGTTAGGACT AACAGGAGAC
13261 AAAAAGGAAA TCAAGGAAAC CAAATGTCTG GTCTCAATAA CTGCTATGGC AGAGGCTCTA
13321 CAGCTTATTA TTAATTTTAG TAATTTTACA TTATTGCCCC TTCACGTTCT TTAAGTAAGG
13381 TTAGAGGACA GAAGAAACAT AATGTTGTTA CAAATTGGAC TATTGAGTCA GGAAAAAATA
13441 AGAGTGCTTT CAATATCTGA ATAAACAATA GATTAAATAT TTTCTAAACC TTAACGAGTT
13501 TATTGTAAGG GATGTGATGC TGGAAACTAG GAAACTAGAA TTTTCTTCTA AACTGAGAAT
13561 CAGAATTATT CATATTCTCA GCAGTGGTGC CACCTGAGGG ACTTCTGATC TTAATTACAT
13621 ACTTTTATTT CTTTAACTGA TCAACATGCT AAATAGATAA CCTATGGCTC TGTTTTTACC
13681 CACTTTAAAT TCTGTTCTAT TAGCACGGTT AGCTTTCCTA ATTGGCAATA AGATTGAGAC
13741 TATCTTTTTT TTTTTTTTGA GACAGAATTT TGCTCTGTGG CCCAGGCTGG GGTGCAGTGG
13801 CACAATCTCG GCTCACTGCA ACCTCTGCCT CCAGGGTTCT AGCAATTTTC CTGCCCTCAGC
13861 CTCCCAGTA GCTGGGATTA CAGGTGCACC ACCACGCCCT GCTAATTTGT GCATTTTTAG
13921 TAGAGATGGG GTTTCGCCAT GTTGGCCAAA CTGGTCTCGA ACTCAGGTGA TCCACCTCGG
13981 CCTCCCAAAG TGATGAGATT ACAGGCGTGA GCCACCGTGC CCAGAAAAGA CTATCTTATT
14041 TTATGAATTT AAATAATTGT GAAATTATCC ACTTAAGGGA ATTAATAAAT TATAATGTAA
14101 TCTTAAATTT TAGTTGGCTT ACATAAAGAC TTAAATATCA TCAATTTAAA TAAAAACTCA
14161 TTTGTCTAAA AAAAAATCAA AAATTTTCCT TGTGCTTAA ATGTGCTACC TCTTTAAGTT
14221 CTAATTAAGA GAAAAAAGT TTAAGTGTGA GTTTCATTAG TGGTCTTAGT TAACAGCTTA
14281 AAGTATTTTG TAAAAAAT ACTTCACAAT TTTTAAATAA CTTAAAAATA TTAATACCTC
14341 TTTTATTAGG TTTTTTTAAT AAGGAAAATA TATAATACAT CTAATCAAGA TTATTTTTTG
14401 GACAAATTGG CTTAATAATT TCATTTTAAA AATGGCTTCT TTATCTTAT ACTGTAAAAA
14461 TAATATTAGC AGAATATTAT AGTATACACA AGTTTAGGGT TCATATTCTA AAAAACAAAA
14521 ACAAAGCTA ATTTAACTTG CATTACTAA ATTTCTTCCA CTAGTTGTAC TGGTTACATG
14581 AGTTAACATC ACTTTATTTA TTATCTTAAA ATTGTAAAT ATTCAATTGAA CCAAATTTAA
14641 TGATAATAGA TAATGTCATT TTTAAAAATG GAATTAATTT TTATGTTACT AATTATAAGG
14701 ATTCAATGTG TGAGCTTAAG TACTGAGTTC ACAGTGATG ATAACCTTAA GAATTTAGGT
14761 GAATATTATT AAATGAGTA AATTAATTCT CAATCTTTGG ATACCTGGAC AATTTCTAAA
14821 TTGGAGGGTA CAAATACAA ATCACAAGAA ACAGTGAGT TTTATGCAA TAACATTTTT
14881 ACACAGTTTA GAATAACCAT TGATAAACAG ATAAGAGAAC ATATGATTGC CTTAGAATAG
14941 ATACTGTTGC TTTCCGCACT TTAGATTGT AAATCATGTA CTGTATACGT GTGGGCGTAG
15001 AGGACCATGC AGGTTTTGGA TGACTGCCTC TGTTTTCGTC ATGCCTATGC GGGAACACAA
15061 TTGCCTGCTT TGTTTAAAGG CTATGGTTAA TCCAAACAGC TCTGACTCTA TCAAGTACTA
15121 TAGCTACAGA GAAACACAAG TAAGCATTCG AGATAATGAC TACCTTGAGC CTTACTTAT
15181 TTAATAAGTT GTTACTGTTT GTTAATGTGG TACATTCAAT TTACTATGGA TTGTCACTCT
15241 AAAATAAGAC TTCAATCTTT TTCTTATTTT TATATAGCCA TGATTTATAT TCATATCTTA
15301 ATGTAATAAC CAATCTTCTC TGACAACATT ATAACAATGC TGGAACCTCC ATTTTCAGTA
15361 CTTCAAACAA CAAATACTGC TTTTATACTT CAGAGCAGAT GGATATGTGC TTCCAGTGT
15421 AAACACATTT GGAATCTCAC TGAGAAATAC ACTATCACTA AAAATACAGT TCTGAGATTC
15481 ATTAAGAGAC CTCCAGAATT CTGGAAGTAG GAAGTTTCCT CTTCAAAGTC TACAGAGGAA
15541 GACGAGGTCT GAAATAGACA GCTTCTTCT TCTTTTACCCT GTGGTATTAT TCTGTTTTGT
15601 CCTTTTCTCC ATTATCTGTC TTTCCAGTGA TGAAATTTTG ATCTGGCCCT CCCAAGTATT
15661 AAAAAACAAG CAAATAACA AATCTCAGT ATATTTTACT AAGATATTGG CATGCTAACT
15721 TTTTGCAGGT TTGTAACAAG GACCTTTATA ACTTGACTAA AAGTTCTTAA ATAAGAATAT
15781 TTAGTAGAAA ATTTATTTCT GCCTGTGGCC CACATTTGAG TCAAAATAAT CAATTAGGAA
15841 AAATGAACCT GTTTAACTAA AGTTGGCCAA ACTGATCTTT GAGACCTATT CATCTAAGAC
15901 AAGCCAATTA AATCTTGGA GACAATTTGT ACTTTAAGGA ATTCTTATA TATTTGTAAT
15961 TACCTCATA ACTTTTTTTT TGCCCTACTT CTGTGCTTCT CTAATATGCA GATTATTAAA
16021 TGTGTTTACA AAGCCATTGT CAAAAAACA AAAACAAAAA AACTAAACAA ACTCACATGG
16081 TTAGACTTGC TCCTTTATGA GATATTTTAA CAAAAAATGG AGGAGTTGAA AAACCTCTGGT
16141 GCCAGAAATC GTGAAGACAT GGCCTACCTA ACTTGAAAT GTTGGTTGTC AGTGGAATAT

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16201 ACTACACAGA GATAGCCATA GTGCTGCACA GCCAATCTTA AGTGTCTCTA GAGAATCACT
16261 AATTGTTTCT AGAGAATCAC TAATTGTTTT CTTTAAACAT TCTTGGTTTA TACAAGAAGA
16321 GAGTATCCAT ACTAAACTCT TTTCTACTGA AAATAATGTG CAAACATAAC ATCCTATTCC
16381 TAGACAGTTT GTAGTTTTTT TCTCCCATT CTATTTTATA AATCATCTTT TTAATAACT
16441 TTGTTGAGTG AAATCAGTCC ATTGCTTGAT ATACCTTGAG CACAAGTAAA TAGTATGCCA
16501 AAAATTAAAT GTCTTTCAGT CACAGTTTGA CAAACTCAAC TACCCTGAGC CTATAGAGTG
16561 GTAATAATTG CCTACTCAT AAAGATGGGG TGAAGATTAA ATGAAATAGC ACCTATAGAA
16621 CACTAGTTCC AGACGTGGTA TCATGCTAGT AAAATGGCTG CACAGCACTG CTCAATGATG
16681 ACAAAAAGTG AAGCTTCTGG AGACAGACTC CAAGTTTGAC TCCCAGATCA CCACATATAA
16741 GATGTGGGAC TCTGAGGCAG GTCATTTAAT CTCTCTGTGC ATTAGTATCC TTCTCTATAC
16801 CTTTACAGTG ATGGTAATAG CACCTACCTT CTAGAAGTAT GTGAAGATTA AAGATCCTTA
16861 ATGCATATAA ACCACTGTGT TTAGTGCTGT TTGACAAAT TTATTTATAA CCATCTTTAC
16921 GCTCCTAAAA GGACTTGAAG CAGCTTATGA CTGAAGACTT TGGTAGGAGT TGGCCTTCTA
16981 TAAATTATAA GAATTCATA AATTATTTGA TATGAAAATG CCAGTTGATC ATAGTATGTT
17041 TACCGGGGTC CAACAGGTTG AGAAAAATA CACTTTTTTT CCCTGAACAT ATGAAATTAG
17101 CTCTCTAGGC ATATTCCTAA GGACTTAAAG AATGATAACT ATCATTTCTC TTAAATCTTC
17161 CAGATTTGGA AGGATATATA TATTCAGCAC ATTGACAGAC AATCCCAGTA GTCCTAAAT
17221 AAAAGACATT AAAAATTAGT GAAACTTTTC CTACCTTAG CCTGTGTAAT CCTGGATGAC
17281 CAAGCATAAA ATTAATTTGA GTAGAGTATA CCACTGTAAC ATTTCTGAA AGGTATTCTA
17341 GGTCTGAGT AATTTCTTTG GGGTCTGAAG ATCAGTTTGA CATATCTCA AGTATCATGA
17401 GTTCATTATA ATTAAGAAAA AGGGAGTAAA TCTGGAGAAT GAGCCACTTT CTTACTACTC
17461 CTTGACCTCA GTTCTTTTTT TCAGAGACAG GGTCTCACTT TGTGCCCAG GCTGCCAGGC
17521 TGGAGTGTAG TGGCGCAATC GCATCTCATT GTAACCTCCA CCTTCTGGGC TGAAGCCATC
17581 TCCTGCCTC AGCATCCTGA GTATCTGGAA CCACAGCAGG TGCACACCAC CATGCCAAGC
17641 TAATTTTTTA AAAAGTTTTT TGTAGAGATG GGGTCTTACT ATGTTGCCCA GGCTGGTCTC
17701 AAACCTCTGG GCTTAAGTGA TCCTCCTGCC TCAGCCTCCC AAATGTTGG GATTACTAGT
17761 GTGAGTCACT GTACCCCGCC CCACTTCAGT TCTGAGGAGG AAAAAATATG TAATAATAAT
17821 GGGACTTTGG TTTGCTGATT TAAAGATTCA TGTAACCTTA TCATCCAATG CGCAATTTGT
17881 AGAATAATTA ATAGAGACAT CTGGTCTCAT GTTCTACAG TTGCTCATGC CTTGATAGTA
17941 GATCTCCTTG CTGCTGGCTC AGAAGGGTAA AAGAGCAGAA ATGATGGGGC TTCTCTCATT
18001 CTATGAGGAA ATAGACCTAT GTAGAGGAGG CTACCTGTGG TAAACCTTA TCCTCATCAC
18061 TTAAAATTCT AGGCTTATTC TCTGACCATA TCAAGTTTTT AAATGGTAAA AGAATTGGAT
18121 TCAAGAGAAA TATGAATAAA CTTTGTGTTT CACTTTTCTC CCTCCTCTCC CCCATTCTC
18181 CCTTCCTTTA TTTTCTTGTC CTTAGTTTTT TTTTCACTTT TTTGTCTACT ATTATTTGCC
18241 CAAACTCAAC TGTAGGCTAG AACAAAAAAA AATTGAAAAT TAAAATGTGC CCCTTTTGT
18301 GTTAGACTTG CTTAAACAAT TGGGGTAATG AACCTTGGAC ACTAGATTTT AAAACACACA
18361 CATTTGAGCT TCAGTGCAC GAAATAAATA TATTTTTAAC AATTAAAAAA TAAAATTGCA
18421 TGTTTTAAAA ATCTGCAGAG AACAATACAC GTTGTGAGAT CTTGAATGGA AGGAAAACGT
18481 CTAGCCTCAA GAGTGGATCA AAGATGCTCA GCAGGCAACA GAGTAAGAGC ATGTTGGAGG
18541 GTTTAGAGAG TGTGCTCAGG GTTCTAGGCT CTAAAAATCA GACAGTCCCC ACGGCCTGGC
18601 CTTGCTCGCT GTATCTTCTT TATGAAAAAC ACTAAGTCTT TTTCTCTACT GGATAAATTT
18661 TTATCCTTCA AGTTTAGATC AAATGGAATC TTAGGACACT GACTAGGTTA CATTCTCTT
18721 TTAAGAGCGT ACAGACATTC AAGGGCTAGA GGATGTGGGT TTAGTGACA GGCTCATTAT
18781 CCAACAGCTG TGCTACCTGG GAACTTAAAC CTCTCTGTGC CTTAATTTCC TCATCTATAA
18841 CGCAGGGAGA ATGACAGTAG GTATCTCATA AGGTGTTGG AACAACTAAA TGCATTGGTA
18901 TCTATTGTGT AAAGTGCTTA AAACACTGCC TGGCACAGAG CAAACATCCA GTGAACTTTA
18961 GCCATCATCA TTATCATTGT TCTCAGAGTC AAATACAATA TCTCATATCT GATAAATTAC
19021 AGAAGTGAAT CAATCACTCT CTCTCTTTTC TCCAGGGGGA GACAACAGCT TTAGACATA
19081 TCTTTTCCAA CAGTCGTCAC TGCTGGACAC TGTTTCATCT TGCAATAAAA CCAATGAAAA
19141 TGAGTGATCC TAGAAGAAGA TAAATGGAGG TATTTTGAAC AATCAAAGAA GGACAAATGA
19201 ACACCTGGCT GAGAAAAAAT AGCTCTTTT TCTATGCATA AACTATTAA AATATCTTCT
19261 ATAGAAATTT ATGACACAGG AAACATAAAG ACAAATTA AATAACTCCT AGTATCTCCT
19321 ATTCTTTTTA TATGTATATT ATATATACTC ATATTCATAT ATACATATAT CTCACATCAT
19381 GTATCATATA TAAATAAAT TTAGGTGTCA TGATATATAT TTAGATAAAT AACTTAGAA

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19441 ACTTTTTTAT GGATGTATAA TTTATGGATA TATTGATAAT TATGTATTTG TTATTGACTA
19501 CTTCAATTGA TTCCCATTTT TATGCATTAT ATTATAGATT ATATAGCTCA CACATCTTTG
19561 TACATAAATC TTTGTTCAAA TATTATTTTC TAAGGATAGA CTTTCATGAAG TGGAAATACT
19621 AAATCAAAAG TGAAAAACAT TTTCTAAGGT TCTTAACATA TACATTGCCA AATTGCTATT
19681 CAGGATCATA CCAATTTATA ATCCCAAAAT AATATGAAAA TTCCTGTTTT ATAGCACTCA
19741 TATTTACAAAT AAATTTTAAA AATCACTGTT AACCTAATAG TCCTTCAAAA GAAAAAATAA
19801 TTGAAATTAC ATTATTTTAA TGACTCTATT AGTGAGGGTC ATTCTTCCCA TGTTTTCTGT
19861 TAGCCATGAC CCTATAAGAA ATAACTGCA CTGCAAAATG ATAAACATGA TATCAATCAT
19921 TACATGGGAA GGCACATAT AAAGAATAAT ACCTTAGGTT AAGGCCACAT AAATATTTAT
19981 CAGGTGCCTT TTCTGCGGAG GACTCTGAAG GGATACTAAA CTGCATTAG CTGCATGCAA
20041 CTGAAATTAC TTTTACCTAC ATTGTCTCTT ATAAACATTA TAACACTCTT TTGAGAAAGT
20101 GTTTACTATG GACTGAATTG TCTCCCCATC CCCCCTAATT CATATATTGA AGCCATAAAC
20161 CCCAATATGA CTCTATTCCT AGACAGGACT TATAAGAGGT AATTAGAGTT AAATGAGGTC
20221 ATTAGGATGG GTTCCTAACT GGATAGGATT GGTGGCCTTA TAAGAAGAGG AAGATTCTGC
20281 ACTTGGTCTT CCAAATTAAA TAATTTATTT AAAAGAAAAA AAAAAAAGA GGAAGAGAGG
20341 GAGCTCTGCA CATATACTGA GGAAGGCTA TGTGAGCTCT CACAGTGAGA AGGTAGCACT
20401 CTACAAGCCA GCAAGAGAGC CCTCACCAGA ATCCAGCCAT GCTATACCTT GCTCTGAGAC
20461 TTCCAGCCTC CAGAACTGTG ATAAATTTT GTTGTTTAAA CCACACAATC TATGGTATTT
20521 TTTTATGGCA GCCCAAGCCA ACAAGACAG CATCATTGCT GTCACCTACA GACAAGAAAA
20581 CTAAGACTAG GAGAGAGAAA AGTTAACTT GTCCAAGGTC ACAAAGCCA GAAACAAGTG
20641 AGGTGAGAAG TTGACCTTGT TCTCTCAAT CCAAGGCCAG GACTCCTCCA CTCCACATGT
20701 AGATAGCCAC CTCACAGTCA ACAGCCAAAT GTCCACACCC CAGAGTCAGC ATTAGACCAA
20761 GATGTCTTAC CAGGAGACAA ATGCCTCATC TTGAATAAAT ATGTTCTAAC AACTTACCCA
20821 TGTAACATCAT TGAATCTCAT GAGAAACAAA AATGCAAAGT ATGTAGAAAA CTATGTTTAC
20881 CACTTAACTG ACAGTGATAA AAAGCTTAAT GATATCCTTA TAGTCTTGGA GGGGTTTGTA
20941 TATGTGGTGA AACAGGTGCT CACGCACTGC TGATAGACTG TAAATTGGTC CTAGAGAGAA
21001 AAATAAATAA ACTGGAAGGA GTTATGCTGT ATGTTTACTT TTTTATGGA AACATATGAT
21061 ATACCTGGAA ATTGATTGG CCATGCATCT ATTTCTTCAA TGGGTATGCA CAGTTGAGCT
21121 GTTCCCATGC ACCAGGCACT GTAATGGGAC AACTGCACAT GACAGTCAAA AATCTCAGTC
21181 TCATGAAGTC GACATGCTCA TGGAGAGGTG CTACCCACTA AACTAATATT TGTATATCAA
21241 TTATGGATAC ATTGGGCCAC ATTTACAGAA ATTCACCTAC AGTGGGTTAC CAGAAGGGAT
21301 TTTTTTCTT GATTGGCAAG AAGGCTAGGC TGTTTTGTTG GGGGCTGGCA GGAGCTGTCT
21361 AGGCTGCCCA AGTATGCAGG TCTCTTCTAT CATCCTGTGT TAACCATCTT CCATGTATCT
21421 TTCAACCTCA TGGTCATCTG CAGCATGTCT AGGGGTCATA TCTATGTTCC ATGCAGGAAA
21481 AAAGGGTAAA GGGAAAGGGA AGTAGGCATG TACCATTTTA ATGCACACCT TGGTTTTTCA
21541 AAAATTTAAG AAGAAAGACT TTCTGCTTTT CTCTGACTAT TCTGTATTCT GGATTACAAC
21601 GCAACAGAAA CGTCACCTTA AATTCTAATG TTTTCTCTC CTGCTTTCA AAAACTGACT
21661 CATTAACTC CACGTGGCTT GGAAAAATTA TTTCAGTCAT CCAGTAATGA GCTGTTTATA
21721 GAAATGTTTT GGACATCAAG TCTGTGTTGT TAGCATTATA CATGTTAAGC ATTGAATAAA
21781 AAACAACATG ATGTGGGTAC ATTTCTTTAC TTACATATAA GTACTTATAT ACTTATAGCT
21841 GAAAAGAGAG GTTGAAATGT CAGGTGGAAC AGAAATAAGA TTACCTAGAT GTTTCTCTTA
21901 TGGGTGATTT TCAGCTATGC TGATCTTTCT TCTGGGTCAG GTACTCCCAG AACTTCTTAA
21961 TTAAATGGTG GCCCTGATCT TAGTTCCTCT CTCCTCTTAG ACATTTTCCA GGACTACAGA
22021 AGATGTGCAG TTTATAAATG AGTAGCAGAA ACCTACTGAA CAAATTATTC AGGCTCATCT
22081 GAACAGAGAG GACACCTTCT CTGCTATACT CTCTCAGTGA TTTCCCTGCC TTGGGGTCAA
22141 TTATTGTCTT GGACATTGAT TTAAGCACAT AATAATTGTT GTCATTGCTT ATGTTTGGAT
22201 TTCATCTCCC AAAATAGATG GTAAATCTT TAGTTTAGAG ACCAAGTAAT ACTTACAAAA
22261 AAATTTTGTG TGTGTGTGTG TGTTTTTCT GTGTCTCTCA GCCCTGTAAT AGCATCGTAC
22321 TTACACTTGT TAGATTTTAA GAGACAACTT TTACAAAACA TGGAAATTAT TACATACCTT
22381 TTCTACAAAA CAGACAAATT AAATACTCAG TAGTTGAACC AAAAAAAGCA GTTCAATAAA
22441 AATACTTGAA AATGAAGAAA TCATTTGAAC AGAGTTAAAG TTAATCGTAA AATAATGTCT
22501 GTAAAAATTA TTGCCAATCA AATATAAAGT TCAAAAATAG TGCTTGAAAA AGGAAGAATC
22561 ATATGAAAAG GGAATACTCA TTTTAAAAAT GTTAGATATC AGGAAAAGCC AAGAAGTGAG
22621 TATGGTAAGA GTGCTGTCAA GTGAAACCCT GCTAATCTCA CTGAACATGT AAAAATCTGT

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22681 AGATGCCTTT ATTTTATTCA CTCACACACA TATGTAGAAA GAGAAATATA TGGTAAACAT
22741 TAAAAAAAC AAATTAGAAT GTAAATTA TACTTTAAAA AATGGGCTGT ATACTTTTCT
22801 TATCACCGGA GATAAGAATT TATTATTTT AAAATAAAGT TATTTTCTCT GTGACTGTTT
22861 CCATGACTTT GCTACTTAGA AGTTAGAGAT GCCAAAGTTT ATCTAAGAAA ATGTTTATGG
22921 AAATATTATT TCAATAATGA ATGTTTAGAA GACTGAATTT CCTGACTGGG CACAGTGGCT
22981 CATGCCTGTA ATCCCAGCAC TTTGAGAGGC TGAAGAAGGA GGATCGCTTG AGTCCGGGAG
23041 TTCAAGAGCA TCCTGGGCAA CACAGCGAGA CCCTGCAGCA AAGTAAAAAG AAAAAAGAAT
23101 TGAAAAAGGA AGACTGAATT TCCTTTGGGC AAGTCATGTG ACATTCCTGT GCCTCAGTTT
23161 CTTCACTAT AAAGTTAATT CCTACATTTT TGGGGAAGGG AGAGAAAAAC TTAGGATAGT
23221 GACTGGCACA GAAGAAGCAC TATATACTAT ATATATGTGG ATATCATTTG TTTTATGGT
23281 ACCATTTTAG CTATCTAATG CAAATATGA ATCTTTTTTT TCTGGGTCTT AAATTATGGA
23341 ATGTAAGAAT TTTCTAAATT CTCTAATTCT GTGTTAGTTT TAAAGCAATG GAGTAACGTA
23401 TCTGTCAACT TGTAATATA AGGATCAACC TGATCCACAA TTTGACCCCT AGCCACTAAT
23461 ATTTAATAGT ACAACACTCA GAAATTATCA AAGGTCAGAG AAGCCAAACA AATGTAAAAA
23521 CATAAGGTG CTCAGAAAGA TGCACCTGTA ATCTCTCTAA GGAGAAATAT TTCCAAACT
23581 GAGTGACACG GTGCTTTAGT GAGTTGTGGA ATCAATCTCA TGATTTCCAA CCTAGTGTTT
23641 TTTTAAAAAT GAACTAGTCC ACAGTAGAAT ATACTAAAGT GCTGGTGCTT AAGATAGTAT
23701 TGTTTTCTGG AAAAAAATAA AAAATTTTTT TTTTGTGAGA CAGGGTCTCG CTCTGCCCA
23761 GGCTGAAGTG CAGTGGCACA ATCATGCTCA CTGCAGCCTT GACCTCCTGG GCCCAAGTGA
23821 TTCTCCCACC TCAGCCTTTT GAGTAATCTG GACCACAGGT ACGTGCCACC ACACCCGGGT
23881 AATTTTTTAA TTGTAGAGAC AGGGTCTTGC TATGTGCTTA GGCTGGCCTT GTGAACCTCT
23941 GGGCTCTAGT GATCCACTAG CCTCAGCCTC CCAAATTTAT GGGATTATAG GCATGAGCCA
24001 CCCTACCTGG CCTGTTCCCT GAATTTTTTT TTCTTTCAGG TGTTTGTGCA TATGTGTGTG
24061 TGTATGGGTA TAACAGAGAG ACAGAGAGAA AGAAACTTTT CTATCACACT TTGCAATCAG
24121 AAGTTTGAAG TCTTATCTTT TGGCTTTTGT TTCAGAAATA TTTCAAATGT AGACTCTCTC
24181 CTTTACCACA CTGTCCCCTT AGGCAAGGTC TTTGCCATTC TTCTGAGACT ATTGCAACAG
24241 ACTCCCAACT TCTGACTGTG GGCCCTTCTC AAAAATGATT GTTTATGCAA TAAATCTAAA
24301 CCCAAGACAA CTACAACAAT ACAACAAATT CTCTGCTTAA AAACCTTCAA TGTCTGCCGG
24361 GCGCGGCGGC TCACGCATGT ATTCCAGCA CTTGGAGGC AGAGGCGGGC AGATCACTTG
24421 AGGTGGGGAG TTCGAGACTA GCCTGGCCAA CATGATGAAA CCCCATCTCT ACTAAAAATA
24481 CAAAAAATTA GCCAGGCATG GTGGTGGGCG CCTATAATCC CAGCTAATTG GGAGGCTGAG
24541 GCAGGAGAAT TGCTGAACC TGGGAGGTGG AGGTTGCACT GAGCCAAGAT CACACCATTG
24601 CACTCCAGCC TGGGCAACAA GAGCAAAACT CTGTCTCAA CCAAACCAA ACAAACTTC
24661 TAATATCTAC CAAATGTTTC ACACAAGTAT TTGGGGATCT TCACAAATGG CCCTTATGGA
24721 GTTTTCCTTT GCTGAGACCC TATGCTCTGG CCACACTAAA CTCAATCAGC ATCCCAGAAA
24781 GGCTCAGCC TTTGTGAGCA AGCTCTTATC TCCAGGCCTC TCACAAAGAC CTGTTCCAGT
24841 AGAAGCTCAG GGGAGCACAC TGGACATTAT TCCAACAACC CTTTCCCAC AGCTATGCAG
24901 CCAAATCTGC CAGCTCAGTT AATTAATTAA GCAATTCAGA GATGAGGGTC TGCCAGGCT
24961 GGAGTGCACT AGCTGCGACC TCAAGCTCCT GGGCTCTAAG TGATCCTCTT CAGTCTACCC
25021 AGAAGCTGGG ACTGCAGGCA TGTGCCACCA CCCCAGCTA ATTTTTTTTT TTTTCAGTAG
25081 GGACCAGGCC AACCTAGTCT TGAACCTCTG GCCTCCAGCC TTCCGAAGTG CTGTAATTAC
25141 AGGCATGAAT CACTGCGCCC AGCCAACCCG CCCAGTCTTG TTAGACATGG GGTCTGTAGT
25201 TTCTAGTAGG TTCTTGAGTC TAGGGTTCCCT ACCTCATGTT TTATAGTTAA TTTAGGGGAG
25261 GGACTGTGTC TGTTTATCTG GGGATGTAGG GGTGGGCAGG GGGATAGAGG GGAATCAAT
25321 TAATGAAACC AGAAGCAAAA CTCAGTTGAG GACACCGGTC ATGAGAGTGG CCTGATTATG
25381 GCCAATCTTA CATAATGTGT GAGATCTTGA TATTACCCCA TCCTTGAGAG TCCTCTATAA
25441 AGCTACAGGG ACTTGGGAGC ACCTTTAATT ACAGACAACC CATGTTCCCTG TGGATTATGA
25501 TTTATTAGAT TGCACATGCC TAAATAAAGA CATCCTCTGC AGTCTTTTGA CAATTCATATA
25561 AGCATCTTCT GACTCCGCAA TTAGACAGCT AAGAGATCTG TGTTACTTCC CTCACATATA
25621 TAAATAATTT TAAATAAAAA TCATGGCGTG AATAATTTCT TTCCTCTACC GATTTGAAGC
25681 TATCCATTG GAAGACCACT CTGAAGAGAT GAAATAAGTC TTCTGCCAAA GATTACTTAT
25741 TAATTTACAA GGAAAAGGGG AAGTTTGTG CCTCTCCGTG AATTGATTG AAAATCGAGG
25801 GCTTTCTCGA ATAGTTTTGG CATCCAGGT CATTTTTCAT TAAAAAGAGA AAAGTCATGT
25861 CAAATATGAA TTTCCGCAGA TTATTCAGCA CTAGACCCTG GGAGATTCTG TAAAGAGGGG

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25921 TTTTGGTTATA CTCAACTTTT CCGGGTAAAA CAAACACAAA TACTCCTCCT CCAAGGGGCG
25981 GGGGCGGTGC CTAGGTGATG CACCAATCAC AGCGCGCCCT ACCCTATATA AGGCCCCGAG
26041 GCGGCCCGGG TGTTTCATGC TTTTCGCTGG TTATTACATC TTGCGTTTCT CTGTTGTTAT
26101 GTCTGAAACC GTGCCTGCAG CTTCTGCCAG TGCTGGTCTA GCGGCTATGG AGAAACTTCC
26161 AACCAGAAG CGAGGGAGGA AGCCGGCTGG CTTGATAAGT GCAAGTCGCA AAGTGCCGAA
26221 CCTCTCTGTG TCCAAGTTGA TCACCGAGGC CCTTTCAGTG TCACAGGAAC GAGTAGGTAT
26281 GTCTTTGGTT GCGCTCAAGA AGGCATTGGC CGCTGCTGGC TACGACGTAG AGAAGAATAA
26341 CAGCCGCATC AAAGTGTCCC TCAAGAGCTT AGTGAACAAG GGAATCCTGG TGCAAACCAG
26401 GGGTACTGGT GCTTCCGGTT CTTTAAAGT TAGTAAGAAG GTGATTCTTA AATCTACCAG
26461 AAGCAAGGCT AAAAAGTCAG TTTCTGCCAA GACCAAGAAG CTGGTTTTAT CCAGGGACTC
26521 CAAGTCACCA AAGACTGCTA AAACCAATAA GAGAGCCAAG AAGCCGAGAG CGACAACCTC
26581 TAAAAGTGT AGGAGCGGGA GAAAGGCTAA AGGAGCCAAG GGTAAAGCAA AGCAGAAAGAG
26641 CCCAGTGAAG GCAAGGGCTT CGAAGTCAAA ATTGACCCAA CATCATGAAG TTAATGTTAG
26701 AAAGGCCACA TCTAAGAAGT AAAGAGCTTT CCGGGAGGCC AATTTGGAAG GAACCCAAAG
26761 GCTCTTTTAA GAGCCACCCA CATTATTTTA AGATGGCGTA AACTGGAAA CAAGTTTCTG
26821 TGACAGTTAT CTATAGGTTT AAGTTGTGAT GCAGCTGAGT TGAAAAGGCT TGAGATTGGA
26881 GAATTAATTC AGGCCAGGCT TCAAGACCAT CCTGGGCAAC ATAGCCAGAC TACCATCTAT
26941 ACCAGGGGTC CTCATTCCCC CGGCCACCGA CCGGTAACCG GTCCCTGTCC ATGGCAGGTT
27001 ATGAATTGAG CCGCACAGCT GAGGGGTGAG CGAACATTAA CCAACTGAGC TCCACCGCCT
27061 GTCAGGTTAG CTGCAGCATT AGATAGATTTC TCATAAGCTC AAAGTGTATT GTGAATGGCA
27121 CATGCAAGGG ATCTAGGTTT CAGGCTCCTT GTGACAATCT AATGCCTGAT GATCTGAGGT
27181 TGGAGCAGTT TTAGTCCGGA AATCATTGCT CCCAGCCCCC GCACCCCTGT GTCCGTGGTA
27241 TAATTGTCTT ACACAAAACG GTCTCTTGTG TCAAAAAGGT TGGAGACTAC TGGTTTTACA
27301 AAAAAGTAAA TTAGTCAAGC ATGGTTGGCA CGCTCCCTTA GTCCCTGCAC CCAGGCGTTT
27361 AAGGATACAG TGAGCTATGA TGGTGCTACC TCACTCCAGC CTGGGTGACA GCGAGTCAGA
27421 CGTTGTCTCA AAAGTTAAAA AAAAAAAG TTAACAAGA AAAAGGGCTT CTGTGCAGAG
27481 ACTGCCGTAT ATCTAGAGGT CCAGGAACCTA AAAAGTCTGA TGTCCAATCC TGAAGAGCTC
27541 GATGGTGCAC TAGAGGAGGC TTTTACATGT AAGAGCATCT AAGTTCTGGA AATGCCAGTG
27601 TCAGGGAAGG GAAGTGGAGA GCAATTGGC ATCCAAACAT AACTTGCTGA TACTTTTTTT
27661 TTTTTTAAAC CAAGTACTAC ATTCTAGTCT TTCTGTGGTG TCATTGTAAC TATTGTTTCT
27721 TAATATGCTA TCCACTGACT TCAAGGGATC AATAAATAGG AATCAAGGTG TCCCAGAATA
27781 TGGATTAGGG GAGTTTTTTT TTTGTTGTTG TTGTTGTTGT TTTTCTCTAT TCATTATCCT
27841 GTAGCTGAAA TTTAGAAATT TCTTCCATTG TGTGTGACTG ATAGAAATAA CAAATTTGTA
27901 GGTATAGTT GTTGCAAGAA TCTGGAATC GTGCTTGCTT ATTTCCGAAG TACTATTAGG
27961 TATATCAACA AAAACACACA TATTACGGTC AAGTGGTTTG ATAATTATT TAATATTATT
28021 GGTCTAATAC AATTGTAACC CTATGAATTA CTTAAGTAT CTTATTTATG AAAAGAATCT
28081 GTAAGTTTCA TCAAACTACC AGAGCATACC GAAGACTGAA AAATTTAAG AATCCAAACC
28141 TTAATGGAAA TGTGGAGGC TGCCCAATTA GGTCTGAAT TCCACCTCC TGAATCACAA
28201 ACTTGTTTTA ACTCTCAGTC TGAGGTAAC TACGTTTCTC TTTAAACAGA CATAGTTTAA
28261 TTTTCTTTG ATTTTGTGATT TAGTATTCTT ACTGATCATC ATAAATAACC AATGCTAATG
28321 TTAGTCTACT TTGGACCATG GTATTTCGAG AAAGTTTGAA CAAAGTCCCC TGCAAACTA
28381 TGCATTGCAT TATTTACAT ACATTATGT TTTCCAGACG GTTCAATAGT ACCTCACTTT
28441 TCTGAACCTA TTTGTATAGT TTGGCATCTT TTTAAAAATT GTGTCCTATA ATGAAAGGTT
28501 GTAAACATTA TGTTTTAAAT TTGTATAGAT AAAATCAACC ACAGACCTTT CTTGCTTGG
28561 ATGTAATTGC CATTGTTTCC CAATGAGTTC GGAATTAATA GGATTGTGCA AAAATATGCC
28621 TCACTTGCTT GACATAGCAG AGAGCCATTT TGCTTAAATG CTGTGCCCAG CAATGGACTG
28681 TCACCAGATT CTCATCACAT ACAGTGAGGA TGAACAACTA GCCTCTCCCA GCAGCTGGCC
28741 GGTCTCTCAA TAATATGGGA CTCCTCAAG ATGGCTTCTT GCACCTTTGC TCCTCTAGCC
28801 TTGTATGTAT ACAAGGCTAG CATGCCTGGC ATACATAAGG TTAACAAACA AATCAATAAG
28861 TTATGGTTCT TCCTCCAGTT CTGGGGATTA TTAGACCACT TTTTGTGTTT GTTTGTGTTT
28921 GGATGGAGCC TCGCTCTGTC ACCAGGCTA GAGTGCAGTG GCACAATCTC GGTCACTGTC
28981 AACCTCTGCC TCCTGGGTTT AAGCAGTTCT CTGGCTCAGC CTCCCACGTA GCTGGGATTA
29041 CAGGTGCCCC CCACCACGCC CAGCTAATTT TTGTATTTTT AGTAGACGGG GTTTCACCAT
29101 CTTGGCCAGG CTGGTCTTGA ACGCCAGACC TCGTGATCCA CCCACCTTGG CCTACCAAAC

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29161 TGCTGGGAAT ACAGGCGTGA GCCACCGCGC CCGGACTTAG ACCACTTTGT TTTGGCCAAT
29221 AGGACAACAG CCATAGAACC CTCCGCAAAT GAGAGCTTGT CCCTAAAGAT GCTTTATTTA
29281 CATAGCTGTG TGCCGCATGA GCCAAAAGGT GATAACCTTT GTTCAACACG CGCCTCCAGC
29341 CCTTCGGTTA AGTCCAAAGT ACCATTCTTA GAATGCTCTA AAATACATAA TTTTTCGTTT
29401 TTTTTCGTTT TTTTGTAGGA GTCTCTCTCT GTCTCCCAGG CTGGAGGGGA GTGGCGCGAT
29461 CTCGGCTCAC TGCAATCTCT GCTTCCGGGC TAGTGGGGCC TACAGGTGCA GACCACCACG
29521 CCCGGCTAAG TTTTGTATTT TTTTGGTAG AGGGGGTTTC ACCATTTTGG CCAGGCTGGT
29581 CTCGGATTCT TGATCTCAAG TGATACACTA GCTTTGGCCT CCCAAAGTGC TGGGATTACA
29641 GTCGTGAGCC ACTGCGCCCA GCAAATGCT TTTTGTGGAG CCAATCACTT TATTAGCGCT
29701 TACCTCTCTA TGCCTACTTT ATGCTTTGAA ATTTTGTAC AGTGGGGCCG GTCATGGCAA
29761 ACACAATTCA TTCTTATGCA GGCTGTACAG GTTATTTCTG TCATCCAAAC TCATTCTCGC
29821 AACGCATTTT AGCTCTTTAA ACGACTTTGT GAGCGGCCCT GAAAAGGGCC TTTGGGTTTT
29881 TTTGTTTTTG TTTTGTGAAG TTCTCAGGAG ACCGCGTATT CTTAGATTCA GCCGCCGAAG
29941 CCATACAGAG TCGCCCCCTG ACGTTTCAGG GCATATACTA CATCCATGGC TGTGACAGTT
30001 TTGCGCTTGG CGTGCTCCGT ATAGGTGACG GCGTCTCGAA TAACGTTCTC TAAGAAAACC
30061 TTAAGCACAC CTCGAGTCTC CTCATAGATA AGACCGGAAA TCGCCTTGAC GCCACCGCGC
30121 CGAGCCAAAC GGCGGATAGC CGGTTTTGTA ATGCCCTGGA TGTATCCCCG GAGCACCTTA
30181 CGATGGCGCT TAGCACCACC CTTCCCCAAG CCTTTCCGCG CTTTGCCGCG ACCAGACATG
30241 ATTCCTATCG CAGTGAAGG TATGAACGA AACAGTTCCT TAAATACAAA CTTGGCGGAC
30301 CTGATTGAAA ACAACATGAG TTGGCGCGGT TTTTTCGTTT TTTCAAATTT GGTCAACGAG
30361 TGGGTGGAGC AAGAAAAACT GTTTCATTAT GGTTCATTGT TTTGATTGGC CAGTGACAGC
30421 TTGCTCTTTG TGGGAGTGA AGGGTGTGTT CAAGTTGAAT GCGCTGTATT CCTGTGACT
30481 TAATGACGCT AAGCATAGCC CCATTCCACA TTTCTTTTTA TTTCCACTTG CTAATAATA
30541 AATTACGGAA TAGTTTATTG GGAACATAC AAATAATGTT TAAAGGAGGT CAGATTTATA
30601 GGTCAAGGA TTTACCCTCC CAATCATTTT AATATTTTTA TTTAAACCAG GCATTTTGAT
30661 GGCCTTCTCT GTGCTGGACA AGGTATAAGT TTGGCTATGA AGTTTCACTC CTAAAGACCC
30721 TATGTTTTGG GAAGGCAAAA AGGTAGCCAA ATAATTGCAA ATTAAACCT CATAAGTGCA
30781 AACTTCTTCC TCGTCACTTT CCTATCTCG ATTCAAATAT TTGTTGAATG ACTCATTTT
30841 CTGCAAAAGT CTGAGAGAGA CAGGGAATAT AAAGTTAAGT CTGGATAATA TGTTTTCCCG
30901 GGACGCTCTT CCTGGTCTGC TGTGCTGTT TGCTGTGCTT GAAATTCCAA ACACCTTCC
30961 CTTCCCTCCG TTTTAAATCC CTTTCAACT TGCTACAGCT TTAGAGAAAA GAACATACGT
31021 TTTGTACAGT TGGGGATTAA TTGAAGTGTA GGGCTAATAC TTGATTAAGG TCATTACAAA
31081 ATCTACAGGG TCTTCTCTG GGAGGTTTTT GTGATAAGAT TATTGGTGTT AAAATAAGGC
31141 TAATCCCCTT GAAAAATAAA TAGAATAGCA GAATTGGGTC TGAATGTGGT TTGAAGAAAG
31201 GGACTTCTCA ATTCAAATTT TTATTCTTAG CTTCTGTGG GAGCTTTCCA GAATGCCCAT
31261 AAGATCCACT TTTGTTTAAA AAACAAAAC AACCCACCC ACCACTCTCT GGTAAATAAA
31321 TGAATTTCTA TTGGGAATAT TTAGAATGGG GCTGTGGCCT GTGAGAGACA TTATATAGTA
31381 ACCTCAGACT TGCTCACATG AAGAGAAGAA ATCCAGGAAT GGAGAAAAAA GACCCAGGAA
31441 AGGCCAGAAT GCTCTACATG TCATATTGTT TGTATCACTT CTGAAATAAT TGATTACATT
31501 CTTCTGCCCC AAATTGAGTT CTTAGGTTCT TCCACTCACT GTCCACATGC CACAACACAG
31561 ACCTTATAAC TAGAGACTTA GCTAGGAAGA AATGTCAAAC ATTACAGAGA AAAAATGCAG
31621 AGTCTGAGAT CATAAGTAA ACTCTGAAAT CTCAACATGC CTTTAAATTC ATGAAAATAA
31681 AAAATATAGC AGCATATGCA ATATGATAAT TCTCTGAAAA CATACTCAT GTGAACTACC
31741 CTGGAACACA TCTCGCCAAG TGCCATCTTC ATTTTAACCA GAGGTCTAGG ATGCCCTTCC
31801 TTTATTTTGC CTATTATATC ATTTATAAAA CCCCATTTT ATTTTGATAT TTTATTTACT
31861 TTCTATTTCC TGCTCCTAAT ATCTCCTTC TAACTTTTC TCAATGACAG TGACTCAAAA
31921 ACAATGAATG TCAGAACAAA TATTTAAAGG ATCTGTACAT GTAGATATAT ATATTTAAAA
31981 TGGATTCTTC CACTCTGGGA AGAATTCAGG CATACTCAAT CTTATGGTTA GGGAGAGATT
32041 AGGCTCACTC GCCTAATCTG TATGGCTTCT CGTTCGCTTT CCATTTCACT TTCCTCTCAC
32101 CCATCAGATC AAATCAATTC ATTGAACAAG AGACCTAAGC CTTTCAGATT AAAACTCTGC
32161 AAACAAGTTG TGGTTGAGAG GATACATGAA GCATTCAAAC AAATAAATCT ATGATATTAA
32221 TCAGAGGTTA ATCTATGATA TTAATCAGAG GTTAATGCAG TGGCTCACGG CTGTAATCCC
32281 AGCACTTCAG GAGGCTGAGT TGGGAGAATC GCTTGAGCTC AGGAGTTCAA GACCATTTTG
32341 GGCAACATAG CAAGTCTTCA TCTCTACTTA AAAAAAATA ACCAGAGGTG TTATGAAAAAT

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32401 ATAAATTGTC CAGAACTACC CTCCACAAAC TAACTCTCTC AGAATATTTCG ATATGAGGAA
32461 TGAAATATGG TGTGTGTGTG TGTGTGTGTG TATGTGTGTG TGTGTGTGTG TGTATGCACC
32521 TATATATGGC ACCTATATAT TCAACAAACA ATTCTGATAA TTGGCCAGGG TTGAGAATGA
32581 CTAGCAGCCC AGCATACACT ATCAGTTTTA AGTATATAAT TGCGCTTTAG TAAAATGTAA
32641 AGAAATCCCA GAGTAGAAAT ACTTTTAAGC TATATTACAG GTGAGAAAAT GCATAAGTAT
32701 AGTCTCACCC AACTTAGACT ATGGGGGCTT TATAATGTCA CAACAGTTGT TTCCAGGCAT
32761 TTGGGGACAT CACCACTGGT CTTGGGCAAG AAACCTCTCT AGCCAATGGC TGATTTATCT
32821 CACTCCCATC TAAGGCTTCA CTGCATTTCT CTTTTTCAGC AACCTAACTT ATTTAAAAAT
32881 ATCCATTTTC TGATTCATTT TTTTCTGAAT TAAACTGTCA GTACCATTGG CACACCTTTG
32941 GTTCCGTAGC ATACCTGTGT CTCTGCTGTG GTTTTTTTTA CCTCCACTCC TTACTTTTCT
33001 AGAAAAAAT CTCTGCTTTT TCTTTTCAGT TTAAATTATT TCACAAAAAG TTTTCTTGAC
33061 TTGCACTTCC TAGGCTTGCT GTCCTTGTGT GGGCACGCTC CCATAAACAC TATTAATACA
33121 CTTTCGATTTG TTAAAAATAA AGATATCTGG ACAGAAAATT TCTTTTCTTT TTTTAAGATT
33181 TTAAAAATTT TAATGTTTAT TTTTTCCTA GACTGGAGTA CAGTGGCACC ATGATGGCTC
33241 ATGGTAGCCT ACACCTCCCC GGGCTCAAGT GATCCTCCCA CCTCAGCCTC CCAAGTAGCT
33301 GGGACTACAG GTGTGCACAA CCACACCTGA CTAATTTTGT TTATTTGTTT GTTTTGTTTT
33361 TTGAGATGGA GTTTCGCTCT TGTGCCCCAG GCTGGAGTGC AATGGCGGGA TCTCGGCTCA
33421 CCGCAACCTC TACCTCCAG GTTCAAGCAA TTCTCTGCC TCAGCCTCCC GAGTAGCTGG
33481 GATTACAGGC ATGCATCACC ACGCCAGCT AATTTTGTAT TTTTAGTAGA GACGGGGTTT
33541 CTCCATGTTG AGGCTGGTCT GGAACCTCTG ACCTCAGGTG ATCTGCCCGC CTCGGCTTCC
33601 CAAAGTGCTG GGATTACAGG CGTGAGCCAC CACGCTCGGC CACTAATTTT GTATATTTTG
33661 TAGAGATGGG CTTTCCCTGT GTTGTCCAGG CTGGTCTTGA ATTCTGGGC TTAAGTGATC
33721 TGCCCCACCTT GTCCTCCCAA AATGCTAGGA TTAAGTGGCT GAGCCACCAG GTCTGGCTGG
33781 AAAGATAATT TCTAACATTA TCCTCTCTTA AACATTTGTT TCAAAAATTT TACAAACATG
33841 AGAGTAATTA AATTTGATTT TCAAAATTTT CTTGAATACT TTCTTAATAG CACACAGAAA
33901 GCACAAAGTA TTTTACATTT GTTTTAATGA TGAAATTGTG AACCCTAACT TACACAAAGA
33961 AAAACCGTAA CATTATACCC ATACTTAAAA CAGATGCCCT CATATACATA GTAAACTCT
34021 TGGGGGCGAGT AGTGAAGTTG GTTATTTACT GTTTTATGAA AGTGCCATTG AGCCGGGTGC
34081 AGTGGCTCAT GACTGTAATC CCAGCACTTT GGGAGGTCGA GGCAGGCTGA TCACGAGGTC
34141 AGGAGTTCAA GACCAGCCTG ACCAAAATGA TGAAACCCTG TCTCTACTAA AAATACAAAC
34201 ATTAGCTGGG CGTGGTGGTG TGTGCCTGTA GTCCCAGCTA CTCAGGAGGC TGGGGCAGGA
34261 GAATCGCTTG AACCTGGGAG GCGGAGATTG CAGTGAGCCG AGATCGCACC ACCGCACTCC
34321 AGCCTGGGAG ACAGGGCGAG CTCCGCTCTG AAAAAAAAAA AAAAAAAGT GCCGTCATAG
34381 TGACTTAGTT TTAAGGAATA AATCAAGGAT ATTTAACTCA ATAGACTACA GTTAGCTAAC
34441 GTGACTTGCA CTGAAAGTTA TACGAATATT GGTACTTATT CCCCTGCCCT TGAAGTATGA
34501 ATTAAGACT CCAAATTTCT TTTTAGAATC TTCAGAGTAA AAGCTAGAA TTGATTTTTT
34561 TAAATAATAA AAAAATACTT TGTATCTAAA TCTGGTGTAT AAAATAACTT GGTGGATGAT
34621 GCTTCAAGGC TATCCATCCC CAAATTTCTC CCTGAATGAT AAAGAGAATA AATGAATATG
34681 TCAATTCAAA AGTTAGAAAT TTGGCCGGGC ACGGTGGCTC ACTCCTGATA ATCCTTTCCG
34741 ACGCTGAGGT GGGTGGATCG CATGAGCTCC GGAGTTCAAG ACCAACCTGG GCAACATAGC
34801 CAGAACCCGT TTCAATAAAT AATAGAAAAA AATGAGCCAG GCGTGGTGGT CCCAGCTACT
34861 CAGTAGGCTG AGGTGGGAGG ATCACTTGAG CTCAGGAGGT CGAGACTGCA GTGAGCCGTG
34921 ATCGCAGTAC TGACACACCAG CCTTGGTGTG AGACTGAGAC CCTGTCTCAA CAACAACAAA
34981 ACAAGTTAGA AATTTGGCTG GCGCGGGTAG CTCACGCTTG TAATCCCAGC ACTTTGGGAG
35041 GCCAAAAAGG GCGGATCATT TGAGGTCAGG AGTTGAGAC CAGCCTGGCC AACATGGTGA
35101 AACTCCATCT CTAATAAAAA TACAAAAAAA CTTAGCCGTG CATGGTGGCA TGCCCTGTGA
35161 GTCTCAGCCA CTTGGGAGGC TGAGGCAGGA AAATTGCTTG AACCCAGGAG GCAGAGGTTG
35221 CAGTGAGCCG AGATCATGCC ACTGCATTCC AGCCTGGGTG ATAGAGTGAG ACTCCATCTC
35281 GAGAAAAAAA AAAAATTCT GTATGAACTG AACAAAATAT CCTTAAATTT TAAAATACAT
35341 CTGAAAGATA TTCAAAATA TTTAGGAAAA AAATTATAGG GATCAGGCAA ATTCTGAGAT
35401 TCCTTTTTCC CTGCAGCAA CATTAGGAGT GCTGCTGTTT CTAACAAACAT GGTAAGTGT
35461 GCCACACCGT ATGTTTCTCT GGCTCAGACA TAAGGTTGTG TAGTTGTTAT TCCAGAATAG
35521 CTAGAATAAA AATCCAGCAC ATCATTTTCT TCAGCAAGTT AACTAACCTC TCTGTGCCTT
35581 GGTTTCATAA CAGCAACATA AGCATAACAG AATAGCAGCA ATAGCTCCTA CCTACCTCAT

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35641 AAGATTCTTT GGAAGAATTA AATTAAGATT CAGAACACAG CCTAATATCT AGTAAGTAAT
35701 AATAATTGGC TAAAAAATT TTCTTAAGAT TATATATATT CATGGGGTAC AAGTACAATT
35761 TTGCTACATT AATATATTGC ATTGTGGTGA AATCAGGGCC TTCAATCCAT CCCGGAAAAA
35821 AAAAGTTTT GAAAAGATTT CTGCCATGGA AAACCTTTAA TGTACAAATT CATCCATCCA
35881 AGAAATAGAA AATATATAAG TATCAACTCC AAATCCACCA TATCTATCTC TTCTGCACCT
35941 TAAACAATTA CTCAGAAATA GAATGCTTGA GATACCAGAA TGCATGCATA TCAAGTAATA
36001 AATGCATGCA GGATGTCAAC GCATCCTAGG CTTTCAAATA AAATTGTCAT ACAAATACT
36061 TTAATATTGT AGTAACATTC TACATGTTAG AGTGTAGAAG TTAATCGCTG ATGCAAAAAA
36121 GGAAAAGAAC ACATTATACC CAAAGCCTAC AGAGAGAATC ACAATTACAA ATATCAGCCT
36181 GCATGTGAAA ATCTTTAATT TGAAGTCAG AAATATTTAA ATGATAGTCA TTGTTAAATC
36241 AGATTGTGGT TTGAAAAAAA GTTAGTTTAA AACTGAGTTT ATGAAAAATT TGGGGATTTT
36301 AGAGACAGTG TTTTGTTTTT AAATGTGTGT GAGTTTGTGA AGAATGTTTT ATAAAAACT
36361 GACAGTATTA TAAGATGACA TTATTATAAT ACAACATAAG AATTTTGGCC TGTACCTCTC
36421 AGCAGTCCTC AATCACCTGC TGTACTTGAC TCAATGATTA TCAGAGTGGT TGTTTTCTCT
36481 TCTGTTGTGT TCCCAGTTCA GGCAGCTCAG CAATGGCCTG TGATTCCAGC AATTCAAATA
36541 GCTGGTAAGT AGTTTCTTGT TTGTTTTCTC AAATTTTCAG GGGCTTTTCT CTACAAGTGA
36601 TTTCCAGTGC ACGCCCCCTC ACCCATTCTT TATTCCTTTA CCTTCAGGAA AACCCCTCAGC
36661 GCTGCATCTC TGGTCACCGG ACCACCGTGG TACATTTACC TATGGCCACC AGGTGTCACC
36721 CTTCTCTTTA CTACCATGGT TTGTGAATGG TTTTGCCAGA GGTGAATAAG AATTTAAAT
36781 GCAGGTCTTT GATTTTTCAA ATGTAGTTGA CCTTAAGAAT TTATGAATAA AGCCAGAAAA
36841 ATTAAGCTTA AAAAACACCG AAAGAAATG AGGACTTAA ATTTCTATTA AAAAAATTAA
36901 CAGGCCACAG TTGCTGATGT TTAGTAAATG TGTTAGTGAA ATGTGTTACT GTGAAGACTG
36961 GGGTGTCTCT TGAAATCTCA GCCCAGGTGA AATAAAACCA ATATAAAACA AATGCTTACC
37021 TAATAAATTA ATTGTAACAT ATTCCCTATG AGGTAGAAGA GTAAGTGAAG CCTTATAGCA
37081 GTCTGCTTTC AGTATAGTAA GATATTAAGA GAGAAATAAT TTGTCATATG CTTTCAGAA
37141 GGTTTGCTGG TAAAATAACC AATGTCTTAC AACTTAGACG ACAATGTCCC TAGAGTGAAG
37201 AAACACGATT AATTCGGCTA CCACAGTTGA ATGAAAATAT TCCGTAAGAC AAAATGTAAA
37261 GAAATTAGAA GCAAAATAAA TGTCTCCAAA ATGACAAAGC GATTAAGTAT ATACACAAGA
37321 TGAACAAGAA CTTCAATAAA ATCAGTCAGT ATACAATACA ATGTACATTT ATTAAAGTAT
37381 ATGCATTTTT AATGCAACAA TAATACTAAC AGGTAATAGA CAAGTTGTTA ATAGTTTTTC
37441 ACTGGCTAAT TAAATAACAG CTTTAATTGT ATTCATTTTA TAGCTTTTCT ACAATGAGCG
37501 TAAATCATAT TTACTTTTTT CTACATAACT TTTCTAACCA CAAAAAAGA AAATGGTTTA
37561 AAAGAAGAGA TGAGATATCT TTGCTAAAT TTAATGCCTA AAGAAGAAAC TTCTGAGCTG
37621 TATATGGTAT CCTGAAGCAC CTGCCCTTCA AGACAGAATG CTTGTACCAC ATTTATGCAG
37681 CCAAGTGCAT GTAGTAACAT AAAGTAAACA CATGCCATCT GGATATATAT ATTAAGACTC
37741 TTTTGACGGC TGGGCAGGGT GGCTCACACC TGTAATCTCA GCACTTTGGG AGGCCGAGGC
37801 AGGCGGATCA CGAGGTCAGG AGAGTTCGAG ACCAGCCTGG CCAACATGGT GAAACCCTGT
37861 CTCTACTAAA AATACAAAAA TTAGCCGGGC ATGGTGGTGC ACGCCTGTAA TCCCAGCTAC
37921 TTGGGAGGCT GAGACAGGAG AATCGCTTGA ACCTGGGAGG CAGAGGTTAC AGTGAGCCGA
37981 GATCATGCCA TTGCACTCCA GCCTGGGCAA TAGAGTCTCA AAAAAAAAAA AAAGACTCTT
38041 TTGAACATGG TGAAGTATT TCCCAGAATC TAGCAATTCC TGAATGTCCT GGTTAGATTT
38101 TTTTTTTAAT GTGCACCGGA ACCCCAGTGG CTCCATGGAA GGACCTGGGC ATCCTCTAAG
38161 CCACTTGGTG GCTTCCATTA TACCATCTCA AAATGAGAGA GCTTACTCCA CTTCAATTGAG
38221 GGAAATACCA CCAGAGTTCT GACTCCAGAG GCACTGGCCT AGGGAGGACA CCGTGTGTGA
38281 AGCCCAGCAG GGCCACTAGC TGTCCCCACC AATTACAGTC CTTGCGTAGG GTCCAAAGAA
38341 ATGAATGCCA AAGAGAGCAA CAGAGAGCAC AGGGAGTCAC ATTCAGGAC CTTCCCTTCAG
38401 GGACTTTTAA AGGAAACATG ACAGCTGAGG ATCAGTTGGT TGTTTTCTGC TGTTCCCTT
38461 CATGTGATTC AAGCTCATTC AGAAGAAACA CAATGAGACA AGAGAAGAGC CATCTCCTTC
38521 CTTCTCTATT TATTCTAGGC ATCTAAACTA CTGAATGTAG TGGTGTCTGA GATGTATCAA
38581 ACGGTCAGAT TGACTGAGTT TGAAACCTGT TTCTATCACT GACAACTAT GAGATACTCT
38641 ATACTTCACT TTCTTTTTTT TTTCATTTTT TTATTTTTAT TTTTATTTTT TTGAGATGGA
38701 GTCTCACTCT GTCACCTAGG CTGGAGTGCA GTGGCGCAAA CTCGGCTCAC TGCAAGCTCT
38761 GCCTCCTGGG TTCATGCCAT TCTCTGCCT CAGCCTTCCG AGTAGCTGGG ACTACAGGCG
38821 TCTGCCACCA CGCCAGCTA ATTTTTTGTA TTTTATTAG AGATGGGGTT TCACCATGTT

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38881 AGCCAGGATG GTCTCGATCT CCTGACCTCG TGATCCACCC GCTTTGGCCT CCCAAAGTGC
38941 TGGGATTACA GGCCTGAGCC ACCGTGCCCC GCCTACTTCA CTTTCTTCAT TTAAGGATGC
39001 AATGGGGATA ATAGTACCTA TCTCATAGAA TTATTGTAAG AAGTGCATGC AGTAATGCAT
39061 GTAAGTAGGT GCTCAGAAGA GTCGGACACG AAGTAAGTGC TTTTATCATC CTTATCATAA
39121 TTTTCATTAT CAGAACAAGG AGAGACCAGG TAGAAAATTA TTGTGATTCT TCAGGTCTGG
39181 AATACTAGAG TAGCATCCCA AATGAAGGCA CCATTAAACT TTGCAAATCT GTATGACACC
39241 TTCATGCCAA TTAGAAAAAA CACCTCTTCA CAACCCCTTT CAAGATATTT GCCTCCTACC
39301 TGCTAAAAAC ACCCATCATA CTACCCACAG ATAGCCATGA TGCTTTTCT GGGACAGGTG
39361 CCTCTTCCAT TCGTGCAGTG TACAGCCTTC ATAGCTGTGC AACTCACATC ACAATCAGAT
39421 GGAAGAATCC CCAAGGCTTG GTGACAGATG AGTTACTGGG TAACACAGAG AGAGGATTCA
39481 AAGGAAAAGT TGAACGGGTC CAGAAAATGC ATAGATACAT GTGTAAAAAT CTGGTAAGGT
39541 TATGACTAGC CACGTCCCAG GGTTCAAAGC TTTTCTCAGA TGTTAAAATG AATCATGTAA
39601 GTCCCCCAA TTTAAGGAGT CCTCTTCCAA AAATAGGAAA TGAAATGACA TAGGTGTATG
39661 TCTCTGAGGT GACGGAGGAA ATGAAGGAAG CCTCTAGATG CAGCTTGAGG TTCATGAGAG
39721 ACAGTTCCAG GGGAGAGGTC ACAGCTAGGG ATCACC GGCA TGCAGGAAC CAGAAACCTA
39781 AATGGGGAAA TCTTTTTGAG GAAATGAACA GAGAAGGCTA AAATCAAGGA GTTCGTCAGG
39841 CAATTTCTAT GTTTAGGTTT AACTCTCTCC TGAAACATGA AGAGCTCATA AATGCACTCC
39901 CTCTTTGAGT CTCTAGTTTT GTCTCCTTCC CACAGTGAGT CTGCAGGCTG CGTGTCACTC
39961 ACGTTTCAGCT AAGACGTAGT GCGCCATGGC TCCTCCTGTG GAGACAAGAG ACCCAGGAAA
40021 GAGGCATCAC AAACCTAGGC ACCATCTTGC CTCTTCTCTC TTCCTTATTT TCCTCATTC A
40081 CCCATCTCAA TTTAGACCTG GGCACCTATTG GATTTCAAGA ACCATTATCT CTCATCTGGA
40141 AATGCTTATT GGCTTTCTAA CTGGTCTCCT CACCTCTCAT CTAACCTTCT AACAAACAT
40201 TCACCATATA AGGGAGATCG TGGTCTCCTT TTCTTAGGAT CCTTCAATGA CACCCAGTG
40261 ATCATAACCC AATATCCCAA AAGACCCTTG GACTCTGTAT GAGCTGGCTT CTTTCTGATT
40321 CTCTTTTCCC TACACCACAG ATGTTTCAGGG GGTAGAAATG CATAATTGGT GAGTGATAGC
40381 TAAGCAAAC CAGGGTTAAG GTACAGTAAT TATTTCTAAT CTCCCAGTAT GCCTTATACT
40441 CTCCTACTTG GCATGGTTGC TCCGTCTGTG TAGACCTCCC ATCATCTTCA ACCTCACCTA
40501 ATGGAATCCA GCTTCTCCTT CAAGATCCAG AAGGCTATCT TGATCCCCAG CTGAATGTGA
40561 TCATTCTTTC CTTTGACACC CTAAGCATTT GCTTCTGCTG TGCTTTAGGA CCTCATGGGG
40621 TCTTCTTTAA CTACATTAC TTGCTATCAA TTTTCTTCCC TACCAGATTT GGGTCTGAG
40681 AATAGCCACA GTGACTTCTC AACCTCAAAG CCCCTGTACT ACCTTAAACA GCTCTTGCAA
40741 AATAGTAGGT GCTCTGAAGA TGTTTGTGTA ATTAGAGACT TTCATTCTGG GGAGAACCAT
40801 TATTTTCTGT CTCCCAGGGA GCTGCTGGTG TCCCCAAAGA ATATAAATGA GAAAAATGCT
40861 TCCCATGGAT GCCAGATCCC CTCTGCCCCT CTCCCAGTGC TGCCCTGGGG CAGAGGTACT
40921 AAGAGACTTC CCCCTTGTTT CTACTCACTT GAACCCCTGCC TCTTCTTAA TATTATGAAC
40981 AAAAATCCAA TGAACAAGAT GACGACAAAA ACAGCAATTC CACTGATGAC TCCAAAGTACT
41041 AGGGTGCCAG ACGGTGAGGG CTCTAAAACA GAAAAAGCAA GTTAAAGCCT TTGATTGCCA
41101 CCCTCAGCCC ACCCCCTAAC AAAGAGCAGA TCCTCATCTC ACTGCCATAA TTACCTCCTC
41161 AGGCACTCCT CTCAACCCCC AATAGATTTT CTCAGCTCCT GGCTCTCATC AGTCACATAC
41221 CCCAGATCAC AATGAGGGGC TGATCCAGGC CTGGGTGCTC CACCTGGTAC GTATATCTCT
41281 GCTCTTCCCC AGGGGGTACA GCCAAGGTGA TCCAGCCCTG GTAGGTCCCC TCCCCATTGG
41341 GCAATACGTC TTAGGTTTCG AACTCCTTGG CATCCATTGG CTGCTTATCC TTCAGCCACT
41401 TCATGGTGAT GTTCTGGGGG TAGTAGTTCA AGGCCCCGACA CCGTAGAGTG GTCAGTGAAG
41461 AGGTCACATG ATGTGTCACC TTCACCAAAG GAGGCACTTG ACAGGAAAGA GGAAGGATGA
41521 GGAGAGGGGA TCTGTTTACC CTTGCCAGGA AGACTGGAAC TTTCACCTCC TTCTATAGGT
41581 TGGAGGAAGG AAATACCCCTT TTCAGAAAAA AACAAGCTAC AGGAGAGACA CCATTTTGTG
41641 TCCTAAGATT GGACTCTAAC ACAGTGTAC TTGGAGAGCA GTCAGATCAG CTTGTTCTCC
41701 TCACATGTAA ATATACATAT CTGTTACCCA TGTTCTTTGT TCTGATAGAT AAAATTGCC
41761 TTTATGTGCA TTGAAAATGA TTGAATACAG ATGGTCAGTT TCACCTGGGT CAACCTAGGA
41821 GGCATTGTTA TAAGAAGCGG ACTTGTAAGA TAGGTAGCTT CAGTGATTAT TGCTATGTTT
41881 TATGAAAGAA ACTTTTAACC TAAAGGATT TTTACTCTG ATAAGTGGCC TCACCTGATA
41941 TTTTGTCTG GTATTCATAT GATAGCTGAG ATCTCTGAAT TCTCTTTTTT TTTTTTTTTT
42001 TTTTAAAGAT GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCCG GATCTTGGCT
42061 CAGTGCAACT TCCGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT

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42121 GGGACTACAG GTGCGCATGA CTGTGACCAG CTAATTTTTG TATTTTTTTA GAGACGGGTT
42181 TCACCATGTT GGTCAAGGCTG GTCTCAAACCT CCTGACCTTG TGACCACCCG CCTCGGCCTC
42241 CCAAAGTGCT GGGATTACAG GGGTGAGCCA CCGTGCCCGG CCTTGACATT TCTGAATTTT
42301 TAACAGGTAT AAATATACAA AAGATTATTG GTTAAATAAA AAGCAAGGGC CATAGACACT
42361 TCCCTTTGAG CCATATGCAT GGAGAAAAGA AATTAAACCC ATGACTTGTG GCTGTCTCAT
42421 ACATCTCAAT TATAAGGTAG AGACTCTAGG ATTGAGAAAG TCCCTTCCCA GAATTTGGAG
42481 AGGCACACAG CCTCAGCCAC CTCTGAAACT CCAACCAGGG ATTCCGTGCC CTGCAACCTC
42541 CTCCACTCTG CCACTAGAGT ATAGGGGCAG AAGTGTGTTT CCACCATACC TTGTTGGTCC
42601 AAAACACCTC TCCCCAGCTC CAGCAACTGC TGCAGCTGTG CAGGGCAGTC CCTCTCCAGG
42661 TAGGCCCTGT TCTGCCTGGC CCGAATCTTG TGCCCTTTCC ACTCCAGCTT GGTGGGCCAG
42721 GCCCTGGGTT CTGCTGCTCT CCAATCCAGT GTGTCAGGGC AGAATTCAGG GTGGTCCTGC
42781 CCATCATACC CGTACTTCCA GTAGCCCTCG GTACTGTTGT CTTCTTGCTT TTCACAGCCC
42841 AGGATGACCT GCAGGGTGTG GGAATCTGGA AAAATCCCCA GCCTTGTTAA CTGCAACCAA
42901 AGGAATAGGT CCCTATTTCC ACCATCCCCA AGGACCAAAT GATCTCAGGA AGCAAATTC
42961 TTCCCTCTTC CCTGCTCCCA CAAGACCTCA GACTTCCAGC TGTTTCCTTC AAGATGCATG
43021 AAAAGATGAA AAGCTCTGAC AACCTCAGGA AGGTGAGGCC CCCTCTCCAC ATACCCTTGC
43081 TGTGGTTGTG ATTTTCCATA ATAGTCCAGA AGTCAACAGT GAACATGTGA TCCCACCCTT
43141 TCAGACTCTG ACTCAGCTGC AGCCACATCT GGCTTGAAT TCTACTGGA ACCCATGGAG
43201 TTCGGGGCTC CACACGGCGA CTCTCATGAT CATAGAACAC GAACAGCTGG TCATCCACGT
43261 AGCCCCAAGC TTCAAACAAG GAAAGACCAA GGTCTGCTC TGAGGCACCC ATGAAGAGGT
43321 AGTGCAGAGA GTGTGAACCT GGAGACAGAG CAACAGGCCT TAACCATGTG TAGTAGGAGG
43381 GGAGCAGGAT GTTGAGGCTC CACACACCTG CATCAACTCA TACCATGAGC TGTGTCTGGT
43441 CCTCATTTTG TGAAGGGTGA GTTGCACTCC TGTCTTTCTT CCATATGACA GTCCTGGGTG
43501 CTCTTTCCTT GTGTGCTTTT CTCTGCCACA CGTGGCTGCC ACCCCCTCAC TGCCCCCAGA
43561 TCCTATTCCA ATACTCATGA TTAGACAGAC TCCACTAAAG CTGGTGGATT CTAGAAAATG
43621 TTAAGGTGTG TCTAGCCATG GTAGTTGAAC TCAGGAGTTG GTGCTCAGGG CAAATTAGAC
43681 CCAAATCCTG AGGAATAATT CCTTCAGTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
43741 GAGACAGAGT CTCACCTAT CACCCAGGCT GGAGTGCAGT GGCACAATCT CAGCTCACTG
43801 CAACCTGCAC CTCCTGGGTT CAAGGGATTG TCCTACCTAA GCCTCCTGAA AACCTGGGAC
43861 TATAGGCGTG CGCCACCACA CCAGGCTAAT TTTGTATTT TTAGTAGACA TGGGGTTTCA
43921 CCATGTTGGC CAAGCTTGTC TCAAACCTCT GACCTCAAAT GATCTACCTG CCTCAGCCAC
43981 CAAAGTGCTG GGATTACAGA AGTGAGCCAC CGTGCCAGC CTGGTCTCTG AATTCCTACA
44041 CTGAACTGCC TATGTGGCCT CACCACTGG AAGCCTGACT GGAATCTCAA ACTTAACATG
44101 TCCAAATGCA GATCCTTGAT TTACCCCAAA CTGCTCTTTC CTCTGCCTTC ACCATCTCAG
44161 AAATGGCATT GCCAATTACC CCACTGCTCA GGCCAATAAA ATTAATAATA AGAACAAAGT
44221 CAACTTTAA TCTTCTCTT TFCAGGGGGT CAGGGGAGAC AGGGTCTTGC TCTGTCACTT
44281 AGGCTGAAGT ACAGTGGCAC AGTCATGGCT CACTGCAGCC TCAACTTCTT GGGCTCAAGC
44341 AATACCCTCC ACCTCAGCCT CCCGAGTAGC TAGGATCACA GGTGCATGCC ACCACACCCA
44401 GCTAATTTTT GTATTTTTTG TAGAGAAGGG GTTTTGCTGT GTTGCCAGG CTGGTCTTGA
44461 ACTCCTGAGC TCAGGAATCT GCTCTCCTTG GCCTCCTCCT TGGCATGAGC TACTACACCC
44521 AGCCAATTCT TCTCTTTCTC TCACACAACA TAGAATCCTT CAGCAACTTC CTTCAGAATA
44581 TATTCAGGAG ACAATGGTTT GTCACCTCCT TTTCTGTTCC CACCCAGCCC ACTCCACTAC
44641 CTCTTGCCCTG GACTGTGTAA CAGCTTCTTG GCTGGGCTCC CTGCTTTTAC TGTGTCTCCC
44701 TTCATTCTGC TTTCCACATA GCAGCCAGAG CAATCTTTA AAAGCCTGTG ACAGATCACT
44761 GTTACTCCTT GGCTAGAATT CACACCACAG CCTACAGGCG CCTGCACAAC CTTGTTTGTG
44821 GCTCCTCTTC TGAGCCCAT ACCTACTTCT TGGCCTCTAC TCCCCAGCAC TACTTGTTTA
44881 TTTTTTTCAA CCCGAGCTTC TTAACCAAGA GTTTGTCTAC TAGGTGACAT GTGGCAAAGT
44941 TTAGAGACAT TTTTGGTTGT CAAGACTGGG GGAGTGCTCC TAGCACCTAG TGAGTAGGGA
45001 GGACAGGATA CTGCTAGACA TCCTACATGC AGATGGTAGT CCCCCTTCCC ACCCCACGC
45061 CGCCCCCCCC CCCACACACA CACACATGAG TAGTGCTGAG AAAACCCGCT TTTTAATCCA
45121 ACTTGCCAGG CCCACTCAGT TTGCCTGGGA AATACTGCTC CCAGTCAATA TCATTCTTAT
45181 TTCCTTCATG TCTCTGCTCA AGTGTCAGCC CCAGAGTGAC TTGCCCTGAC TTCTCTGCTT
45241 CTCACAACAC CCATGATTTT CTGATGTTGT ATATCTTTCT GCTCATTTGC TTATTGTCAT
45301 CTCTCCCACT AGAATGCAAA ATATCAAAGG GTAAAGACTT GTTCCCTGCT TCTCTCCCTT

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45361 GGGGCTTGAA CAGTGCAACA CATGGCTGGG ACTCATTAC ACTTGTAAC AATGAATATT
45421 TCTGCTCAAC ATGAAATTTT ATTATTC AAC CTCTAATGCA GTGTGATGTT TAAGAATCAT
45481 AGCTATGAAG TGGAGACATG AGCTCTGCCA CCAAAGCCCC GTGTACCATT GAATAAATTT
45541 GCCAGGAAGC AGGCCGTGCC ATGCCTCATT CTTGTCTATGT GTAAATGTG GATACACGTA
45601 GTACCAAAAC TCAAAGTGCT GTGTGAGGC CGGCGTGTGA CCCACAGAAC ACTGTGCTAC
45661 ACTACAGGGC AAAATCACTG TCAACTAAGA TTAGAAGCAG CTGTAGTACT TGAAATAACA
45721 TCAGAAAACC AGATTATTTA TGTTCTTTGT AACCTGAAAA GAGTTATATA ATCTGAAATC
45781 CAGTTAACTT CTAGTAAAAT AAACGTATTA TTAGCTCCTA CCTCCCTATG CCTAGTGAAA
45841 ATCAAATAAG ATCAGATATG AATGTAACCT AGAAGTGAGT GCATTGCTTA CATGTTTCATT
45901 ATCAGTACTT TGTAGAGAGG CCTCTTAATT ACACAGCACA TTGCAAAATCA ATAAAGCCTA
45961 GCCGAAAAGA GAATTGTTCA GTTCAAACGT TCAAACTAA CATATACTTA ATTTTCCAGG
46021 CAAAAGAACA ATTGCCAAGA GTGGGGAAG GTGGGAGGTA GGCCTCTCTC AGGAGCCTCC
46081 CACCCTAGAG ACCTCCACCC CAGGTCTCAC CAAAAGTGGG TGGAATGGTG AAGAATTCAG
46141 ATCCCCAACG CCACTCTTTC GCGCCCCAC CGCCCAACGC ATTCGTTCTG AGGTGGAAC
46201 CCCGTGCGGA TCCTGCTGTG GGTGCTGCTCA GCCTTCTCGG CAAGCACTCA GGAAGAAGT
46261 TCCTGTTTGG AGATGACTGG GGAAGAACT GCACAGCTGA CATTGGAAT AAACCCGAGT
46321 TCCAGGTTCA AGGAGCCCCA GCCTTAGCTC AGCTCAAGTG AGGAACTACG AGATTTATTT
46381 AAAAGCATTG TAGTTGGGGG AAGGGAGTGG GCGGTTCCAA AAGTCACTCC GCAGAGCCGG
46441 GACAGCCGGG GGAGGGGGCA GGTCTGGGG CGAGGGACCC CTATCTGCAG TTCAGTGTA
46501 GGCACTCCCT CACGGGGTCT GCACGCAGAA AGTAGGGAGA GGGGCTTGCG GATTGGGTTG
46561 AGCAGGTCCT CCAAAGTTAG CAAACTCCCA AGCGCAAAGA AAAAGCTAGT TTCGATTTTT
46621 CCACCCCGC CGCGCCCTA GTTCGCGCGC AGCCCTCGGA CTCACGCAGC AAGCGCCCT
46681 GCAGGACCGC GGTCTGCAAA AGCATCAGGA GGAGAAGCGC CGGCTGGCT CGCGGGCCCA
46741 TTTCCCCAGC TCTGGCCGCA CGTCCCCGTT AAATCTCCGC TTCTTTTGGG GGGCGGGGAA
46801 ACGGGGATGG CTCCAGAAAT CACCCTACAG CTATTGCCTA GGCTCAGGAG ATGCCAGTA
46861 AAACCTCCTG GTGAAAAGCA ACAGGTCTTT CAGAACTTTA GTTCTCTCTC TCCTACAGCA
46921 GAAGGTACCT GCTTGTGAAA CACTAGGTGA TCCAGTGTCC CCCTTGTTT TTAATCCTG
46981 AAGGGGTGTT GTTGATTGGG GAAAGTAGCT TCGCAATGTT CTGATCTGAA CTTTAGATAT
47041 TTAAATATTT ATGATTTTCA AAATTCATC ATACATTTAA AAATTTTATC TCAACCTTAG
47101 ACCAACTTAT GTCTTATTG ACTTAGAAAT ATAAAGCTTT TTCATTTTGT TTTTGTATC
47161 AAATTAATTA AGTCATAACA TTAACCAATT AGATCCTACT GAAACACGTT CCACAGCCTT
47221 CATAATTGAA TTATCTGACA AGTGTTCAC AAACCTTACA GTATTGGGAT TATCTGGAGA
47281 ATGATTAAAC ATATTGAGGC CTGCTCTTAA CCCCAGACAC ACTGATTTAA TGGGTAATTG
47341 TTAGGTAGTT AGACATTAGC AGTTGGGAGG GGATGACAGA AGAGAGCGGA AAGGCTGTCA
47401 CTAAGACAGC CACTGGCCCA CCTAAATTC AAGCCCAAGAC TACCCTAATG CCACCTAAG
47461 GGATGGAGTT TATGATAAAG TCTGTGGCCA AAATATCCTG GAGAAAGAGA AAGGAGGTA
47521 CAGGTGGAAA TTCCCTAAGG TGGCAGATGC CCAACAACAC AAAAGCCTGT CTTCAAGTTC
47581 ACCCCAAGTT CATCATGCCA TCATTATAAT AGAATTTACA TACAGTTTGT CCCCCCATC
47641 CCTGGGAGGC TTTTCTTAAC AAATTATAGG TAAGACCATG CACAGTTTAA TTTTAGATTG
47701 TATAGCTATA AACTTCAATC AAATAACATC ATCCTGTAC TCAGATACAG CCCAAACCTC
47761 AACTCCTCCC CACAAACCCC ATAAAAGCAC CTTGAGCTCT GTAAAGAAGT GCTGAGTTCA
47821 CTTCGCAGAA ATAAGCCCGC TGTCCTCAG AGTGTATTAT TGTGCTTCAA TAACTTTGC
47881 TTTAAGCTTG CATTTTGGTG TTAGTTTGTA GTTCTTTGCT CACTATCACA AGAAGTGA
47941 TTGCTGCTTC AGAGCTCCGG CTATAATAAT CTCTCGGTT AAAGGATCCA TCCCAATGCA
48001 TAATTCCCAG TAACAGTATG GGATGCCACC TGGGCAATGG GATTTTAAAA GCTTCTCTC
48061 TCCCTCAACG AAGTTTGGGA ATTATTGCCT TAGACATTTT AAACAATATT AATAAATTTA
48121 ATACACCTGA TTGCTCCAA ACCTTTACAT ATCTAGCAAA TTCAACAGGC ATTATTTTGT
48181 TAAGCATGTA TGCAAAATTT GGCAATTCAA GAAAATCAAA CAGGATATCA GGGCCTCGAC
48241 TGTAGGCAAA CAGATACAAT AACATTGGAA ACATGTAGAA TATTGATGAT GGGCACCATTG
48301 GGGCTGATAG TACTATTCTT TTTTTCAT TTTTGGTAAG ATATAATTAG CATACCATAT
48361 AATTCACTA TGTAATAATG AAAAATTGGC CCAGCTCAGT GGCTCACGCT TGTAATCCCA
48421 GCACTTTGGG CGGCCGAGGA AGGCAGATCA CCTGAGATCA GGGGTTTCAG ACCAGCCTGG
48481 CCAACATGGT GAAACCCCGT CTTTACTAAA AATACAAAAA TTAGCCGGGC GTGATAGCAG
48541 GCAACTGTAA TCCCAGCTAC ATTAGAGGCT GAGGCAGGAG AATCGCTTGA ACCCGGGAGG

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48601 CGGAGGTTGC AGTGAGCTAA GATCGTGCCA TCGCACTCCA GCATGGGAGA CAAGAGCAAG
 48661 ACTTCATCTC AAAAAAAAAA AATTAGCTGG GTGTGGTGGC ATGCACCTGT AATTCCAGCT
 48721 ACTCGGGAAG CTGAGACAGG AGAATCGCTT GAACCTGGGA GGCGGAGGTT GTGGTGAGCC
 48781 GAGATCATGC CATTGCACTC CAGCCTGGGC AACAAGAGCG AAACCTCCGTC TCAAAAATAA
 48841 AATAAATAAA ATAAAATGCA AAAATTAATG GATTTTAGTA TATTACAGA GATGTGCAAC
 48901 CATTACCAA ATTTTACATT TCTATCTCCC CAAAAAGAAA CCATGTTCCC CTAATTCAGT
 48961 ACCCTTAATT CATCGCCTCC CAGATTCTCT CATTCTCCTC CTCCTCCCCT CCCAGCCCTA
 49021 GACAATCTTT AATCTACTTT CTTTCTATTT GGAACATTTA GTATACATAG AGGCATATAA
 49081 TATATTGCTT TGCCGTGACT GGCTTCTTTC ATTTAGCATA ATGTTTTTAT GTATGTTTTT
 49141 CATGGACCAA TAATATCTAT TATAAGGACA TACCACAACA TATTTTATTT ATTCATTTCAT
 49201 CAGCCGATGG ACATTGGTTT GTTCTACTTT TATGGCTATT GGGAATAGTG CTGTTATAAA
 49261 CATTATGTA CAAGTTTTTT TGTAGACTTA TGTTTTGATT TCTTTTGGTT ATATATCTAG
 49321 AAGTGGGTTT GCTGGGTCAT ATGGTAACAC TGTTTAACCT TTTGAGGAAT TGCCACATTC
 49381 TTTTCCAAAG TAAGCATTTT ATCCTCCTAT CAGCAGTGTA TGAGAGTTCT GATTTCCTC
 49441 CATCTTTGCC TGGGTTTTTG AATCAGGGCC CCAGATAGAA CAAAAATGTG GTTATTCAGT
 49501 TGTTCCACCA TCACTTGTTG AGAAGACTCT TTTTTCATTG AAGTGTGTTG GCACCCTTAT
 49561 CAAAAATCAA TCTACCATAA ATGTGAGAGT TTATTTCTGG AGTCTCAATT TTATCCCATT
 49621 ATGCTATAAT CTATAATCCT ATCTTTTTTT TTTTTTGACA GAGCCTCACT CTATTGCCCA
 49681 GGTGAGTG CAGTGGCCCA ATCCCGGCCA CTGGCTCCTC CTCCAGGTT CAAGCAATTC
 49741 TCCTGCCTCA GCCTCCCAAG CAGCTGGGAT TACAGGTACC TGCCACCATG CCTGGTTAAT
 49801 TTTTGTATTT TTAGTAGAGA CGGGGTTTCA CCATGTTGGT CAGGCTGGTC TGGAACTCCT
 49861 GACCTCAGGT GATCTGCCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA
 49921 CCACACCCAG ACTATAATCC TATCTTTATG TCAGGACTAC ACTGTCTTGA TTACTATAGC
 49981 TTTTGTAGTA ATTGAATTCA AGAAGTTTCT CAACTTCAAA TTTGATCTTT TTTTGAAGA
 50041 CTATATTAGC TATTCTCAGT CTGCTGAATT TCCCTAGGAA TTTTAGGATC TATTATCAAT
 50101 GTCTATTCTA TTTTGTATA TGTTTTAATA TTTTCATAAG AAACTTTTTT CATTTAACT
 50161 TTTTTTTTTA AGAAAAATAG TGAAATCAG AATACTGGGG GTCAGGCGCA TTTAACAGGC
 50221 AGAAGAAGAA TAAAACTTG TCATATAAAC AAAAAAGAAA TGACCAATCA CATTGTGGAA
 50281 GCCATGGAGT GGTTATAGGT GCCAAGGCT GCAGAGAAAT GGTGTCAGAT ATACCTGAAA
 50341 ATTGTCCATT GTATTTGGCC ATTAAGAGAC TTAGAAGACT TAAGCCATAG ATTGCTCAGT
 50401 GAGACCCCGA GGGCAAATGG TCTGAAGGTG AATAGATCAT TTCACCTTTA AGAGAGCAGG
 50461 TAGGAAGCTA TAAATCCAAG ATTAATAAGT TGACTGAAC TTTAAAGAAG AAACCTTAAT
 50521 CTTGAGCCAC CCTATCCTTG CTCCACCTTC TGCTGCAAGC AAACAGAAAT GCTGAAATTC
 50581 AACACTCACA AAGGCTGGTA AGCTGGAAT GACAAAAATT ACTCTGGGA AAGTCAGATT
 50641 TAGAATTAGG CCATATTTGT TGGGGTTCAG ATTTTCATGT AACTTGGGA AAGGGTTTAG
 50701 CTTATAGGCA CATGCATGAA GGGAACTGGT ATAGGGCTGT GTTCATAAGG TCAAGAGTTG
 50761 AAGGCCAGGC ATGGAGGCTC TTGCTGTAA TCCAGCACT TTGGGAGGCC GAGGCAGGAG
 50821 GATGGCTTGA GCCCAGGAAT TCAAGACCAG CCTGGGAAAC ATAGGGAGAT GCTGTCTTCA
 50881 CAAAACAATT AAAAAATAAA ATTAGTCAGG TGTGGTGGCA CACTTGTG GTCCAGCCA
 50941 CTCAGGAGGT TGGGAAGATC ACTTAAGCCT GGGACATTGA GGCTGTAGTC AGCCATGATA
 51001 GTGCTACTGC ACACCACTCT AGGTGACAGA ATGAGACCCT GTCTCCAAA AAAGAGCTGT
 51061 ATCCACATCC CAGGAAAGTG GTTGAAGATC TACTTTTCTC TGTAACCTA ATAAAGAATA
 51121 GAGTGACAAA TGTGTGTTGT GGAAAGAAAT GGGGTGAGAG CTACGTAGAT GCAAAACAAT
 51181 ACATCCCCAC ATACCACTTG TTAATCATCC TTTTCCACCC ACTTATGGGA TGAATTGCAT
 51241 CTCCCCAAA GATACTCTGT CCTAACCTC AGTACCTGTG AACCTGACCT TATCTGGAAT
 51301 ACGGTGAGTT CACTGGTTAA GAAGAGATTA TAGTGAATA GGGTGAGTCC TCCAACCAAT
 51361 GACTGGGGTC CTCACAGACA CAGAGGGATG ATGGCCAGGT AGAGATGGAG GCAGAGATTG
 51421 GAGTTATGCT GCCACAAACC AAACACAGGA AGCTGCTAGA AGTGGAAACA GGCAAGAAAG
 51481 AATCCTTCCC CAGAGGCTAC AGAGGGATCT TGGCCCTGAT AATACCTTGA TCTCACTGG
 51541 CCTACGTAAC TGTGAGAGAA TAAATTTCTT TTGTTCTAAG CCACCCAGTT GATAGTACTT
 51601 TGTTACGGCA GCCCTAAGGA ACTTGATATA CATTCTTTT ACTGTCATAG AAGTTTTGAA
 51661 TCTTTTAAAGT AGGTCTGTAC CCTTCCTCCC AGTGTCAACG CATGGAATTC CTCTCCTTGT
 51721 GCCTTGAAAA GTGAAAGGTG TTTGAAGTGG TAATGAAAGA AATCTCAGCA TGAGGCCAGA
 51781 TGCTGTACCT CACACCTGTA ATCTCAGCAC TTCGGGAGGA TGAGGCGGGC AGATCACTTG

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51841 AGGTCAGGAG TTCTAGACTA CTCTGGCCAA CATGGTGAAA CCCCATCTCT ACTAAAAACA
51901 AAAAATGTGA TCCTAGCCGG GCATGGTGCC TGTAGTCCCA GCTACTCAGG AGGCTGAGGC
51961 AGGAGAATTG CTTGAACCCG GGAGGTGGAG GTTGCAGTGA ACTGAGATCA CGCCACTGCA
52021 CTCTAGCCTT GGTGAGAGAG CAAGACTTGG TCTTAAAAAA GAGAAAAGAA AAATGAAATT
52081 TCAGCATTAT AGAATAAAAA TGTTCCCTT TCCCCCAA CTTTAAAAAA GCAGAAGTCT
52141 GCATCATAAA ATGGTCTTTG CCAATGTTAT TTTTATTATA ACAAAGGAAT CTTGCAAGGC
52201 TACCAGATCT CAGCAATTGT CACTATGTTC TGTA AAAATC ACTTCCTAAA ATGTCTGAAT
52261 TGACTGCTTG TCTCATTAT TGTTTCTCG TGTCATACTG CAATGGATAT CTGTCTTGTT
52321 AGTATAAATA TTTGTGCATT TGTTGTGTG TAAAACAGCT TTTTGGCCT GTCTTCTTCC
52381 ACCTATGAGG TAATATAAAA CTCATGTTTA ACACTTATTT TTGTAGGAGG ACAAGCTACA
52441 GACAAAACCC CTCAGACACT GAGTTAAAGA AGGAAGGGCT TTATTCAGCT GGGAGCTTTG
52501 GCAAGACTCA CATCTCCAAA AACCAGAGCTC CCTGAGTGAG CAATTCCTGT CCCTTTTAAG
52561 GGCTTGCAAC TCTAAGGGGG TCTGTGTGAG AGGGTCATGA TCGACTGAGC AAGTGGGGGT
52621 ATGTGACTGG CAGCTGCATG CACCAGTAAT CAGAACAGAA CAGGGATTIT CACAGTGTIT
52681 TTCCATACAA TGTCTGGAAT CTATAGATAA CATAACCGGT TAGGTCGGGG GTCAATCTTT
52741 AACCAGACCC AGGGTGCAAC ACCAGGCTGT CTGCCTGTGG ATTTCAATTC TGCCTTTTAG
52801 CTTTTACTTT TTCTTTCTTT GGAGGCAAAA ATTGGGCATA AGACAATATG AGGGGTGGTC
52861 GCCTCACTTA TTCACCCCTT TTGAGAATCT CACTCATTAG TGGGAGTTCT CACTTTTATT
52921 CTCACTACCT ATGTCTTCTT GAAAGACAGA TTGATAATGA TTCATATAGT ACCTTGTGC
52981 TGAAGCATT TGGTGAGCTA AGGTAGTGAT GAAGCTTTT ATCATTTGGA GAAGTACAGG
53041 TAGCAAACAA GGAAGCAGTA AGCAGGTTTC TATTAATATT ATAACCTCTA TTATAAGAGT
53101 TTTAAATCTT CTTAGCACTC GGAACCATTT TTCAAACATG GCCCCAGAAA CAAATCCATA
53161 CCACACCTAC ATGGGCACAT GTGCCACTTT TGTCAATTT CTAACATGT CTCAACTAC
53221 TTGCCCTTAA TCATCTATGT GTAGACAGCA ATTAGTAAGG TTAAATTTCC TACAGACCCC
53281 TCCTTCAGTT GCTAGCAAGT AGTCGAGAGC CAATCCATTT TGATAGATAG CATTTTGCAT
53341 CTGAGTTTCT TGCCAGGCCA CAGTAGTCAG GGCTCTGCTG GTCTTATTAG TAATTATTTT
53401 TAAGACAGCT TGTAAACGTA TGATTCAGTT GAGCATGTAA ATGGGGGTCC CATATCCCCA
53461 CAAGCCGTCT TGTGCCCAAG TAGCAGGCC ATAATATTGT ATGATTCTCT CAGGGGGCCA
53521 TTCATTATTT TTCCAATTT CTATAGCTAT GCTTTTTTTT TTTTTTTTTT TTTTTTTTTT
53581 TTGCGGGAAG CATATACAGG GAAGCCCAGG AGTTTGCTG TCTTTATGGG CAGTAGGAAG
53641 AAAGATGGTT TAATAGTGTC AATAACACAA CTACCTGCCC ACTGGTCAGG TAATTTGGCA
53701 TAAGCTGTAT GCCACATAT CCAGTATAAT CCAGTGGGG CTGTCCAGTC CCGGTGGGAC
53761 TCTGGGTGGG TCCACACAGT TTGCAACTTT GGAATTTAC TAAATAGATT TTTCTTAGTG
53821 TGGTTTGAAC TCCACTAGGT GGCTGTTTT ATAGTACTAT TATACAGTTT TTGCCCAAGG
53881 CAGCTGAGTC TTCCACAGG AAGGGTGAAG TCCTTCCCCA CTTTGTCTAT ACAGTATTGT
53941 CTAATGATTG AGGCTTTTAG GACCCAGAAG TTATCAGGGT GAGTCTTTTG AGCTGGGAAT
54001 TTATCAGGAA CTGGGTCTGT AGGTACTAAT TCTCGTGCTT CCCATGGCCA TTGATCTCCC
54061 ATTACAGTTC CTCCACATAC ATACATAACA TGAAGTGACA TTGAGAGACT GGGCTACATG
54121 CTCAGCTAAT TGCAAAAACA AATTTCTTGT TTTTCTGGA ATTTCTAGTA CTGGCACATT
54181 CAGTTTCATCA TAAGAAGGTT TGAAATACTG GCTCAGGGGA GCATTTATAA ACTTCTCCTC
54241 AAACCACCAT ATTTACTCAA GGATCCAGTC CAGCCCCAAC TATTTCTAAG GTTACACGAT
54301 CCCCTTTTTT CCAGTGAGAA TCAAGGGGGT TGGTTATTAC TAGTTCTAAG GGGTTACACT
54361 GACCACTGGT ACAGGAAGGG CCACTTTTCC CTTTCTGAAG GTGGACAGGA TTCTTTTTAT
54421 TTTTAAACCA AGTTGCCTAA ATGACACAAG ACCAGTATCT ACATTTATTT CCACGCAGTC
54481 TTAATTCATG ACAAGCGTAC TTATTTCTG CCATATAGCC TCTTTCCTAA TGAACAGAAC
54541 CACATCCTAT TTCTAACTTA TTACTATTAA TGACAGCACA GGCAATCAAT TTCAAGGTGA
54601 CTTGTTTGGG CATTCCTTTT TCTTCTGTTT TGGCTAACAC TTTACTCGTA TCGTTTATGA
54661 ACCCCCACCA GTCCTCAGTC CTCAATCTTA TTTCAAAAAC TGTGGTCTG GGAGGCTCAG
54721 ATGGGTCATA ACACACATCA GGTGGTTCAT TTCTGGGCT ACCTGCCTTG TATAGAATAG
54781 CATTATACAA ACAAGTTATT TTTAGAGTCT TTGTACACTT ATAATAACCA TAAAATAATA
54841 AGACTGTAGC AACTTTTTGT CCTACCTCAG TGAAGTGTAT TATACACTGG GAACAGCCCT
54901 CAGTCTGAGG AAGGTTAGTT GAAGTCTTTA CTGTGCAAGT CCAAATTTTA AGGAAAATGA
54961 GTCCCTTGAT GAGTTTTCTC ATGTTTCGGC CATGCATGGA CCAGTCAGCT TCCGGGTGTG
55021 ACTGGAGCAG GGCTTGTGT CTTCTTCAGT CACTTTGCAG GCGTTGGCGA AGCTGCCACG

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55081 TACAGCTCAC AGTCTACTGA TGTTCAAGGA TGGTCTTGGA AGTTGGGCCC ACTAGAATTA
55141 ACTGAGTCCA ATACCTCTAC TCAGTCACTT TCAACTGGGC TTTCTGATAC CAGGAGCAAG
55201 GTGGCAGGTT TTAGGGTGTT GCAAATTTCA ATGGTTATGC AGGGATTTC ACATAGCAAA
55261 CTTTGGTACT TGGTTAATCT AGCATTGTG AGCCAATGAT GTATTTATTA AAGTCACCAC
55321 AGCATGGAGG GCCTTTAAGT TTAGGTTTG TCCAAGAGTT AGCTTATCTG CCTCTGTGTC
55381 TAGCAGGGCT GTTGCTGCCA AGGCTCTTAA GCATGGAGGC CAACCCTTAG AAACCTCATC
55441 TAGTTGTTTG GAGGCCCAGC CTCGGCCAGG GCCCCACAGT CTGGGTCAAA ACTCCAACCG
55501 CCATTTTTTC TCTTTCTGAC ACATAGAGTG TAAAGGGTTT TGTCAGGTCA GGTAGCCCCA
55561 GGGCTGGGGC CGACATGAGT TTTTCTTTA ACTCATGAAA AACTCATTGC TGTTGGTTGT
55621 AATAGATGTA GTTTATCCAA TCTACATTTT TATTAAGTGT CACCCACCAA AATATTGACT
55681 CAAATCCTGC AGCTATTTGA TTTTGGGATT TAAATTGATC TGCTATTCCC TGTGGGACTC
55741 CAATTGCATC TAAATAGATG TGAGAGTTGA AAGACACATA AGGGTCTTCT CTGTCTTTAC
55801 GATGTCTTAT TTTTCTCCC TCTGGTTGAT GAAATGCTAG GGTGAAAGGG ATAGCCAACT
55861 GGAATAAGT ACAAGTGCCG CTCCAGTTAT TTGGCAGAGT GCCCAGTAAA GGTCACCAC
55921 AATACCACCA CACATCCGCT TGGGGATGAA CAAAGGCTGA CTGATTGAGA AGCTCCTGAA
55981 AATTCTTAAG CTCATGTCAT CCCTTCAGGT CTCCAAGGAA TGCTAAGTTT CCTCCCTGTC
56041 ATGAGAGACA AGAAGTGAAC TTAGTTTGG GAGATGGAAG CTGGATGGCC CTCAGGGGTT
56101 GACCTGCAGG GTGCTGGACT TTGGGATATA GCAGAGAGAG CTTGGCACGA CTTATTACTC
56161 CAGGCTGTAG CATCCTGGAA AACAGTTACC ATGCAGCCCA TGCCTGGTCA ACAGGAGGAC
56221 CACCTTAGTG GAAAGGGGAT AATCTGGCCC TCTGGCCTGC CATGTGCACA AGCATAACAA
56281 TTGGTTTTGT TTAATGTGTG GACAGAATAT TTGATCCATT CCAACTGGGC ATTTGCATCT
56341 TGGTATCCTG CTTAATTATC AAAGTTTGT TTAAGTCTTT AACTTCTATG ACCCTCTAGT
56401 AAAATGAATG TATGATTTTA GGAAATTACA AAAACCGGTT GGGGCAGTCC ATCCTCGCTC
56461 TTTAGTGGTC CACACAACAT TCGACCAACT ATGGCATAAA AGCTCTACAT CAGGGGGCAA
56521 GACTCCTCGT TGACACTGGG GTCTTTATTG AAATCTCTCT GGATTAAATG GTCTCAGTTT
56581 ACTAAGGCTC AGTCTGAGGA GAGTCAGGAG GGACAGAGGT ACTTTTCTGA AGTACAGAGA
56641 TGTCTTCGAC TTGGCAAGTC CCCACGGGT ATAACAAGGC AAGCATTAAA TTCAATAGTT
56701 TGAGGCAAAA TTGACTTGGT TATGTTAATA ACTAGATGGT CAGAAATAGA GTGAGGGAAG
56761 AAGAAAGAGT AATAGAATAG ATGAAGGAGT TAAATTTTTC TTAGCTTTAG TTTGGTAGGG
56821 TTTTCCCTG GGAATATGGC CCATGACTCT GGAGGGGGTG GCACCTTCTT GACTCGGGTG
56881 TGATGAGTCC ATCCCTTTT CACCGTATGA ACAACAGTCT CGGTGGTTAG CAGCACAGG
56941 TAGGGTCCTT CCTAGGCTGG CTCAAGTTT CCTTCTTTCC ACCCTTTGAT GAGAACATGA
57001 TCTTCAGGCT GGTGCTGGT TACAGAAAAT TCTAGGGGTG GTACATGTGC TAAAAGACTT
57061 TTAGTTTGA GGGAAAGGAA AGTGGAAGAT AAACCAAGTA TATACTTTT AAGAAGTTGA
57121 CCTTTGTTT TAAATGTGG GACATCAGCA GTGGACTTTA TAGTCCTTG TGCCTTCTTA
57181 CTGAGAAATT TCCTTAGCA CCTATTTTA TTAGTTTTTA GACCAAAGAA AGTCAAATGC
57241 CATTTTATAT TTGACAACGC TTCTTGATG TTTATACCAG ATAAGCTAGA TTTCACTTT
57301 ATATTGGTGT GTTATTAATG TTAACCTTAG TTTAATAAAA ACTCTGTAGA CATATTTATT
57361 TGATTTTTAA TGTCTGACCA TAAGGTAAGA TTTTATAGA CTTTTCTTA ACCTTTTATA
57421 ATTTTTGTGA AAGAACAGGT TAGTGCTTTA AGAAAAACCC GTTGTGTTTT TATTTTAATG
57481 TTCAGTTCAC AGAAAACTG TATGATACCC CTTAACTTTA GCCAATATGT TTAGACACAG
57541 AATTTTCTT ACAATTAAGG TTTCAAACT TGCTTAAACC TTCAAACAA TTTTGTAAAC
57601 CTTTAAATGT AGGTAAAAAT CCACATTCTT ATGCATCCTC ATAATCCTTT TACCAAAGGT
57661 ATATTTTACT TTCCTTACAT ACCTTGACCA TAACTGTTT ATTCAATAGT TTTACATTTA
57721 GAAGGAGGCC TAATTACTTT TAAATTATAC AACATTCTT GCATAAATTT ATTTTCTAA
57781 CACACATTTT TTTCTGACT TTCACAGACA ATTCTTCGAC ATGCCTCAAC TTTCTGACTT
57841 ATTGCAAACA TCCCTTTCTT TAAACAATA GTTAATTTAT CTCAGGACAA GGATTTTCCA
57901 TACAACATTC TTTTATATAT AAATTCTGCC TCCTCTTTAT TTCCTTTTTT TTTTCCGAG
57961 GATGATAACC ATTCTTTTCC AAAGCGAACT TCTTTTATGT CTGTGGACTA GACTGTCTAA
58021 GGCCACAAGA TTAGAAGTTA CTATAATACA TGTTACACTG TTAACTTTTA GCAAACCTTA
58081 CTTTGTGTA AAACCTTGTA AGTTTGGGAT TTCAATTATC CTTTGCTATT AATAAGACCT
58141 TATTTAGTCC AAATTAACCT AGAATTGGTA TAGATGGCTT TTTTTTTTTT TTTAATTACC
58201 TGGGAGGAAC CATCTATCCT CCGTCCCTGA AGGGAGTCC TCCTAGGTCT GGTCAGAGCT
58261 TTGTATGGTA ATTAAGATTT AGATCCCCTG TTAGGAAACC TGCCGGGTTA AGAGAATTTT

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58321 CAGTGGTTAA TGTTAAATCA TCTTCTTTTT TCTTTTTTCC TTAGGATACT TCTGAACCGG
58381 TGAGGTGTGC TCACAATGAG GTTTCCTGTA AAAGTTATTT TTTTACTTTC TTCTGTTAGC
58441 AAAGCAGTTG CCGCTACAGA TTGAATGCAT TTGGGCCATC CGCGGGTTAC TGGGGTTAAGG
58501 ATTTTTGATA GGAAGGCCTT AATGCTTTTT GAATATGCCC TGACAACAAA GTGCCAGTTC
58561 CTTCCCGGTG TTCAGCCACT GCGTTGATCC TCCACGAGGG CCTGCCACGT GCTGCTCTGG
58621 TGAGGCGTTC CACCGGGGCA ATTGCCTACC TGGGAGCGCT CTCCAGATCT GTGTCGCTCA
58681 AACTGGCTGG AGTTCCTCGT AGGGATGCTC CACAGGGCAG GCCTAAGTCG CCTAAGGGGC
58741 TGCCTTGACC GTCCGTAAAT CACCTCTGTC TCCAAAAACC AGCTCCCTGA GTGAGCAATT
58801 CCTGTCCCTT TTAAGGGCTT ACAACTCTAA GGGGGTCTGC ATGAGAGGGT CGTGATTGAT
58861 TGAGCAAGCA GGGGGTACGT GACTGGGGCT GCATGCATCA GTAATCAGAA CAGAACAGAA
58921 CAGCACAGGG ATTTTCACAA TGCTTTTCCA TACAATGTCT GGAATCTATA GATAACATAA
58981 CCTGTTAGGT CAAAGGTCGA TCTTTAACCA GACCCAGGGT GCGGTGCCCG GCTGTTTGCC
59041 TGTGGATTTC ATTTCTCCCT TTAAATTTTT ACTTTTCTT TCTTTGGAG CAGAAATTGG
59101 GCATAAGACA ATATGAGGGG TGGTCTCCTC CCTTAATTTA AACAAAATTT TCAAAGTCCCT
59161 ACCCCAAGTA AATTGGCAAA TATTAATAAA GTTATGGCAT AGAAAATAAA AATGATTGTA
59221 AAAGGCGTAA AGATATTTCT GTGGGGAAAA CATTGTTC TAAGTTATCA GTTAAATTC
59281 TGTGAAAAAT AACCACTAGA GACCTAAAG TACCAGGGG CTAATAATA GAAGGGAGGA
59341 ACACCTCTC AGTCCCCACC GTTACCTCCC CAGAGGGGAA GAGGAAGAGG GTGACTCCAG
59401 GAGAGCTGTG GTCTCCCCC CCCATATGTC CACATATACC TGACCTCCCC TCCCCAAAAT
59461 ATATACCCAA TATCTCTCCC ATATATACAT ATTTATCTGA CCTCTCCACA TATGTATACC
59521 TAACTTTCT CTATATATCC ACATATACCT AACCTCTCA CACACATATA GCTGACCTCC
59581 AGTGGAGGAA AATGGGGAAG AGAGAAGAAG TTATCAAAGG ATAAATCTAG GTCATACTCA
59641 GAAATGTGAA AAACAAAAAC CACACACAGA AAAAAAAAC ACACACAAA AAGAAATGTA
59701 TAAATTTGTT TGTGTCAAAA TTAAGAATTC CGTTCAATG AAGGATCCCA TGGATAAAGT
59761 TAAGACACTG CTGTAAGGAT GGTAGAGAAT TAAATGTCTG AATCAGACGA AAGGATGAGT
59821 AATTAGAATG CACAAGGCCA AGAAGAACAA AACAGAACT CCACATAAAA AATGTATGAG
59881 GCCGGGCGCG GTGGCTCATG CCAGTAATCC CAGCGCTTTG GGAGGCCAGG GCGGGCCGAT
59941 CAGGAGTTTG AGACCAGGCT GGCCAACATT GTGAAACCCC ATCTCTACAA AAAATACAAA
60001 AAATTAGCCG GGCGTGGTGG TGGGTGCCCTA TAATCCCAGC TACTTGGGAG GCTGAGGCAG
60061 GAGAATCACT TAAACTCAGG AGGCAGAGGT TGCAGTGAGC TGAGATCACA CCATTGCACT
60121 CCAGCCTGGG TGACAGTGTG AGACTCTGTC TCAAAAAAAA AAAAAAATTA TATATATATA
60181 TATATATATA TATATATATA TATATATATA TGAAATAAAT GAACAAGAAA TTTAGATACA
60241 GGAAATCCA AAGCACTTGG TAATGAAAGA AAGGTAAAGT GATGTGTCCT TTTGCATTTA
60301 AAAGAGAGCA TTAACAAATT AGAGAGCTGA ATAATGCTCA GTATTGGTGT GGATATGGAG
60361 ACTCAGGAAT CCTCATACAC TGCTGATGGG AGTGCCCACT CCCTGGGAAT ATTTTCCAAA
60421 TATCATCTCA AACATATCCC ATAAAGGTGA CAGGAAAGTG TGGGCTGACT GATATCCTTC
60481 ACTGAGAGAG GTGGAGGTAA AATGAAGTCA CTGCACAATA TAGAGTTGGA AGCAATGGAT
60541 TAGATGTCCA CATAGTTACG TGGGAAGATC CGTAAGATAC ACACACACAC ACACACACAC
60601 ACCTTTGTGT ATATTGTTCC TGGCAGGTAG GCATGGAGGT TTAGAGGCTT TCTACATCAC
60661 ACCTACTGCA CACAGTAAAT GGCCAGGCTG AGCACTGACT TCCATGAAGG GAGATTGAAG
60721 GTAAGAGATT GAAGATTGTT CCCTGGTCTG GGACCCTGCA ACTGAATATG CAGAAAAAAG
60781 TACACCCCGC CACCCCGCTT CCCATCTTTC CTACCTGATT AGAATAGCTT TTTAGAAAAA
60841 CGTTGGCCAG GGGTTGTGGC TCACACCTGT AATCCCAGCA CTTTGGGAGG CTGAGGCGGG
60901 CAGATCATCT GAGGTCAGAA GTTCCAGACC AGCCTGGCCA ACATGGCGAA ACCCATCTC
60961 TACTAAAAAT ATAAAAAATT AGCAGGGCAT GGTGGCACAC ACCTGTCATC CCAGCTACTC
61021 GGGAGCCTGA GGCAGGAGAC TCACTTGAAG CACAGTGATG GAGGTTGAAG TTAGCTGAGA
61081 TCTTGCCACT GCACTCCAGC CTGGACAACA GAGTGACACT TTGTCTCAAC AACAAACAAC
61141 AAACCCACCA AAACCTTAAA TCTACCTATG GCCAAATGCC TGCTAAAAAT AGCACCCAAAG
61201 AAGCAGTGTT CAGGAAAGTC AGATGAATAC CCTAAAATTA GATGCAATGT TGGCTGGTCA
61261 CAGTGGCTCA GGCCCTGTAA TCCCAATCCT TCTTGGGAGG CCGAGGCGAC AGATCGCTTA
61321 AGCTCAGGAG ATCGAGACCA GTCTGGACAA CATGGTGAGA CCGTGTCTCT ACAAAAACGT
61381 ACAAAAAATGA GCTGGGAGTG GTGGCGCACA CCTGTAGTCC CAGCTACTCA GGAAGCTGAG
61441 GTGGGAGGAT CTCTGAACC CAGAAGCGG AGACTGCAGT GAGCAGAGAT CATGCCACTA
61501 CACCCAGCC TGGATGATAG AGCCAGACCC CCATCTCCAG AAAAAAAT AAAGAGAGAG

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61561 AGAGATGCAA TATTTAGGGT TCAACAAGAC TGAACCTCTG ACTCCTTTCC CTACCTCTCC
61621 AGCATGTTAG ATTCTGGGTC CTTTCATCCTA ACCCCCTGTT CATGCCATAG CCACCCTGTG
61681 GTACCAACTT TGGAAGCCTG GATCTTCATC CCCTCATGAT AATGAGTGTC CCATTTCAGGT
61741 CTCCATGCTC AGCTTGGCAA GAGTATCTGT CTTCTCCTCA TGGGACGGTC ACATTACCCC
61801 AGCACTGACA GGTTCCATTC CCACTAGGGT GGCACCCCTAT ATGGTCTGAG TCCAGGCCTT
61861 CCTGGTCCCT CAGTAATCTC AGCATGGTAG CACAATCGAA AAGGGCTAGG CACGGCAGCA
61921 CCATTTCCCA CCAAGAGGTC TGATGGCTCA TCACATAGAC TGAAGGAGAT TCTGAAGAGC
61981 AGAGGTGGAA TGAAGAATGA ATCCTGGGCT CTGCTCTTCC TAGGCCTGTC TTCCTCTCTC
62041 CCGAGATGTT AGCTAACTCA TGAGAGCCAG AAACCAACTG CAGGCTGGCC TCAGGCACTT
62101 AGGTAGTGCT TCAGCCTCAG CAGTCCACAT TCTAGGAACC CTCATAATAT GGGTTGAAGT
62161 ATGCATTCCC AAAAAAATAA AGTTGTTGAA GTCCTAACCA CCAGTACTGA AATGGGAAAA
62221 GTTCCCTTGT CCCGCTCGCA TGGCATGTGA TAGGAGTGTG GCTAATTTCT TCAGTGCTCTG
62281 GCTGCTCAAA CCTCTAGGGG AACAGTAAGA CGGGCAGGTT GTGGGTCTCC AACCCCATGA
62341 CCCCACCACA GTGTCTAGGG TTGAATGTTT ACAGCTCCTG AAGCCACAGT GGGTGTGTGT
62401 TACAGGGTGC TCTTTTAGTT TTGCCATTTA TAGGCAGCTG GTGTAAACCA ACTCAATTAG
62461 ACCGTCTACC TTGTCCCAAG GACAGAAGAA GGCTTTCTGT ATCCCAGGTT CTGCTTTGG
62521 TGTACCGGAA TAAATCAGAC CACACCTGGG CTTAGAGAAA GAGTGCAAGG TTTTATTAAG
62581 TGGAGGTAGC TCTCAGCAGT TGGGCAAAGC CAAAAGTGGA TGGAGTGGGA AAGTTTTCCC
62641 TTGGAGTCAG CCACTCAGTG GCCCAGGCTC TCCTGCAACC ACCCCAGTCA AATTCCGCTT
62701 CATTTTGCCA GGCAAACGTT TGTGTGTGTC TCTTCTGCCA GTGTGCTCCC CTGGACGTCC
62761 AGCTATTCTG GTCTTGTGGC AGGCTAGGGG AGGTCTTGGG AAATGCAACA TTTGGGCAGG
62821 AAAACAAAAA TGCCTGTCTC CACCGTGGTC CCTGGGCACA GGCCTGGGGG TGGAGCCCTA
62881 GCCGGGGACC ACGCCCTTCC CTTCCCACT TCCATATCAT TTAAAGGGAC CATGCCCTTC
62941 CCTTCCAGC ACTTTCCCCC TCCTGTATCA GGACCTGTGA ATGTGGCCTT ATTTGGAATG
63001 AGGGTCTTTG CACTTCATCA GTTAAGATAA GAGTGGGCTC TAACCCAAACA TAAAGGGTGT
63061 CCTTATAAAA AGGAGAAATG TCATACACAG AGACTGACAC CTATAGAGAG AAAATGTGGT
63121 GAGTAGACAC AGGGAGAATC ACCATTCAAG TCAAGCAATG AGTCTGGGGA TACCAGAAGC
63181 TGGGAGAGAA ACCTGGAACA GATTATCCCT CATTGCCTTC AGAAGGAATC AAACCTGATG
63241 ATACTTTGAT TTCAGACTTC CAGCTTCCAG GACTGTGTGA CGATAAATAT CTGTTGTTAA
63301 GCCAACAAAGT TTGAGGTACT TTGTTACTGC AGCCCCAGAA AACTAATACA GTAGGTACTA
63361 TGGACTGAAT TGTGACTCCC CGTCGCAAAA TTCATATGTT GAAACCCATA CCCCAGTGT
63421 GATGGTACTT GGAGCTGGGG CGTTTGGGAA GTCATTATAT TTAGACAAAC TCATCAGGAT
63481 GTGTCTCTCA TGATGAAATT CATGCCCTTA TTAAAAGAGA CAACAGGCCA GGTGCAGTGG
63541 CTCATGCCTG TAATCCCAGC ACTTTGGGAG GCTGAGGTGG ATGGATCACC TGAGGTTGGG
63601 AGTTTGAGAC CAGCCTGGCC AACATGGTAA AACCCCATGT CTAATAAAAA TACAAAAATT
63661 GGCCAGGTGT GGTGGTGAC GCTTGACTC CCAGCTACTT GGGAGGCTGA GGCAGGAGAA
63721 TCCCTTGAAC CCAGGAGGTG GAAGTTGCAG TGAGATCACA CCACTGTACT CTAGCCTGGG
63781 TGATAGAGAC TCCATCTCAA AAAAAAAGAC AATAGAGCCA GGTGCTGCAG
63841 CTGATGCCTG TAATTCCAAC ACTATGAGAG GCTGAAGCAG GAGGCTCGCT TTAGCCCAGG
63901 AGTTCAAGAC CAGCTTGGAC AAAATAGTGA GACCCCAAC TTCTAAAAAT TAAAAAATG
63961 AACTGGGTGT GGTGGTACAC ATCTGAGGCT CCAGCTACTC TGGAGGCTGA GGTGGGAGGA
64021 TTGCTTGAGC CCAGGAGGAG GCTGCAGTGA GCCATTGCTG TCCAGCCTGG GCTACACGAG
64081 AACCTGTCTC GGGAAAAGGA GAAAACAGTG AGACCTCTTT TTCTCTCCTC CTTCTCTCCA
64141 CTGCCTAAGC CCTACAAGCA CAAAAGGAC ACCACATGAG CACATAGTGA GAATGCTGCT
64201 GCCACCAACA AGTCAGGAAG AGAGCGTTCA CCTAGAACT GAATTGGCCA GCACCTGGAT
64261 CTTGGACTTC TGAGCTTCCA GAAGTGTGAG AAAGTTATTT TTTTCTTAGC GACTAAGTCT
64321 ATAGTATTTT ATTACAGCAG CTCAAGGTAA CTAACATAGT AGAAGGGATG AATTATGGAG
64381 ATCACAAGTC CACGCCTCCA GAAAAGACT TCCCTAAAAA TTAGTCTGAG CAAAATTCGA
64441 ATGATGAATT ATTTTAAAGA ACTTTTAAAG GATCTGACAA GTTTGCAAGA GCTAGAGAAT
64501 GCTTTACAAC GTGATAATAG AATGCTCTGT GATGACAGAA ATCTTTCCAC ACTGTTCAAA
64561 ACTAGCTACT GGCCACTTGT GACTATTGTG CACTTGAAAT GTGACTGGTG TCTGAGGAGC
64621 AGAATGTTTA ATTTTACTTA ATTTTAAATC ATTACAATAG CTACATGTAG CTAGGGGCTA
64681 CTGGATTGAA CAGCACAGCT CGAGTCTTTT AGAGGGAGAC AGGACTCACC AAGGTGGATG
64741 CTGGTGGCCA AGCAGCAATG GCAGGTAGTA CACACACAAG AGGCAGATGA TACAACACAT

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64801 CCTTCCCAA CCTGGAGATA AGCTCACCCC ACAATCCCGC CGCTGAAATA GAGTTGATGT
64861 TACCAATGTG CATTTTATG TCCTTTTCCA TACAGAAAGA TCATTCAACA AGTACTATGG
64921 TACTTAAAA ACAACATTCA ATTCATTATT ATGACAAAAT TAAATTAATA GCTCTTCCTT
64981 AAACTTTTAA ATTCAATTTA CAATGCTTAC TATTGGCATT TATTAATCTA CCAATTTTTT
65041 CCCATAGAAC CCATAGAAC AATAATCTAC CAAATTTTTA ACATTCATT TTGGCAAGGC
65101 TTTTGCAATT TGACGAAC TTAAAGTATC CAATTGACTA ATGAACAAAA CTGCTCCAAA TTTTCAATT
65161 TACTGGACTT TTAAGACAAT ACTTAATATG GCAAATCTTA ACTTCTTAAA CTTTGTAAGA
65221 CTAAAAATC TTAAGACAAT ACTTAATATG GCAAATCTTA ACTTCTTAAA CTTTGTAAGA
65281 ATGCTAATCA ACTTAGATTG GTATAAAGTT GAGTTAAAA TCACAGGATA CATCATCTCA
65341 GCTATAAGTT TTCATGAGTT GAGTTTTTAC AATCACTTGA AATGCTTAGA ATAGGAAATA
65401 CGTATAAATT ATTTAACATA AAATATTGTT ACAAACCTC TGGAGTGTC GTTTCTCTGG
65461 CCAGACTTTA TGCTGCAGCA CCTTGCCTG AGTTCCTGTC CTGCATCCAG GAAGAATTAG
65521 GTACAGAGGC AAGAGTCAAG AAGATTAGTT TTCCAATAGT TCAGCTCACC TAGTTAACTC
65581 CTGTTACAAA TCTTCAAAGT TATCAGAAAC CTGCAATTGA GGGTTATAAT CCATTCTTTG
65641 CAGAGTTTCA AAACAAGACA ACATTTGTCT ATGAATGTTA AAATGTCCTA GGGTAGTCAC
65701 AGTCAAAAAC ACAATTGACA AAGAAATTTA GTCACCTCTG TGATTTACAA TAGCCTAACA
65761 CAATAACTCT AATTATAACT GATGACACAA ACTCAGATAT CAGAACTCTA GAAATCCCCT
65821 ATAAATTTGG AACACATATT CACAGTTTTC ACTGAAATAT GACCTGAAGA TCAAATATCA
65881 CCTTATTTCA ACAATCCTAT ATAACATAAC GTGTCAAATG ATCCTGTTTA CCTCTCCTTT
65941 GGATACTCCA GGGGCCCTCT GTAGCATCCA AAAGTTAGGG GTTAGCAAAG ACAATTTTGA
66001 AGCTGTAAAG GCTCAAAACA CTTAATGAAC CTCTAGTCAT ATCTGTTCTC TACTCACTAA
66061 ATGCTAGTAG CACCTCTCAG TTGTGGCTAA GCTGGGAGGA TCTCTGAGC CTAGAAGTTT
66121 GGGGACGCAG TGAGCTATGA TTATGCCACT GCACTCCAGC CTGGGCAACA ATGCAAAATC
66181 CTGTCTCAAA AACAAAAACA AAAACAAAT TGCCTATGCT GTGGTTATCT CACAATTAAT
66241 AAAAAGGAAA AAAAAGTAT GCAGTCTTTG TAGGTCTTG GGGTTTGTG GAACCTAGAA
66301 AACAATACCC CAAAATAAAG ACCGCAGAAG CCAAAGTTTT TCTCTGATCT TCTCTGCCC
66361 TCCTGTCTCT GAGTCCCATT CTCCCCGGAG TCTAGCCATA GAAATGAGAA TTCCTCTTCC
66421 TCAAGTTAGG TCATAGAAAT CAAAACACCT TTTCCCAGAA GCCCAGCCAT AAAACCTAAA
66481 AATATTACTC TAACTTTCCC TCTGTTTTTC TGTGTAAAA CTGGCCATAA AGAAATTATC
66541 TGAACCTACT TATTTGATCA TAGATCACC GACCGCATTC CAGAGAGGAT CCAGAAGGAA
66601 GGAATGCTGC ACAGAGAGGC CAAGAAGAAT CTAGACAGAC AGGCCTTGCT GGGTTTCCCT
66661 ACTCTGTTTA TTAGCAATCC TATTTCTACA CGGCGGCCCA TACTTTGTTG AATCTAAAAA
66721 ATAAAAATGG ACAATTTCCC CTGTACATGT TAATACACAT TAATAAATTG GATATAAATT
66781 GGATAATTTA TTAATATACA CATTAAATAA TTGGATGCAG CCGGGTGCAA TGGCTCAGC
66841 CTGTAATCCC AGCACTTTGG GAGCTGAGGC GGGCAGACCA CGAGGTCAAG ACCACCCTAG
66901 CCGAAATGGT GAAACCCCGT CTCTATTAAA AATACAAAAG TTAGCTGGGC GTGGTGGCAC
66961 ATGCCGTAG TCCCAGCTAC TGGGAGGCT GAGGCAGGAG AATTGCTTGA ACTCGGGAGG
67021 CGGAGGTTGC AGTGAGCCGA GATTGCGCCA CTGCACTCCA GCCTGGTGAC AGAGTGAGAC
67081 TCCGTCTAAA AATAATAATA ATAATAATA TAATAATAAT AATAATAATA ATAAATTGGA
67141 TGCATTTTAT CCTATTAATC TTCCTCTTGT CGGTGGTTTT CAGCGACTCT TCAGAGGCCA
67201 AAGAGTAAGT TTTCCCTTAG CCCCTACAGG TTCTTATGTT TAATTGTTA CTCTCATTTA
67261 AGACATAATT AAAGTGGCTT CTCCATGAAG ATTATTTCTG CATCCATTAT TTGGTAAGAT
67321 TGGCCGTTTT CTCCTTTGAT CTCTACTTCA CACTGACCCA CATAAAACAT CACTGCCTGT
67381 TTTTGTGTTG TTGTTGTTTG GAGACGGAGT CTGCTCTGT TGCCAGGCT GGAGTGCAGT
67441 GGTGTGATCT CCGCTCACTG CAAGCTCCGC CTCCCGGATT CACGCCATTC TCCTGCCTCA
67501 GCCTCCTGAG CAGCTGGGAC TACAGGCACC CACCACCAAG CCCGGCTAAT TTTGTATTTT
67561 TTAGTAGATA CGGGGTTTCA CTTGTTAAC CAGGATGGTC TCGATCTCCT GACCTCGTGA
67621 TCGGCCCCGCC TCAGCCTCCC AAAGTGCTGG GATTACAGGA GTGAGCCACT GCGCCCGGCC
67681 CCGTTTTTTT TTTTGTGTTT TTTGCATGTC TTCTCCCTTT TACTGTAAAC TATTTCCACT
67741 ACCAGCGTAG TTATCATTTT TACTGCTTAA TAATTGTTTT GGGGAAGTGA ATGCATCAAC
67801 CCACATGAAT TTCTTGCTA TTTGACAATT TATTCTCTTT AGGAATAGTA TTAACCTCTA
67861 AGGTCCTGGG AGCCAGTCTC TGTACTTGGC TGCTCCAGGG TCCTACTTCA GTTTCACAGC
67921 TTCTCAGTAC TGTCACTGTC AATTGTGGGT AATAATTATT TTTGTCCACC AAAAGACTCT
67981 GTATGTGAAT GAGTTTTGAA ATCTGCTGAG TAATACAGTG TCAACCCAGT TAATGATTTG

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68041 CCGGGCGGCT TGATCAGGGG CTGTCCAACCT ACCGGGCATTT TGATTGGAG CGTCATCTAG
68101 TGTCTGAAAG CACAAACAAC ATCCTACATT GTAAATGCCT TTGGCTACAG AGATTGAAAC
68161 CAAAGCAAAC CTATGTTTTG AATTGTTATT CTTCAGCAGT TCTGCTAGCC TTGAAAAATC
68221 TAAAAGTTAA AAAAAAGCTT TATATTTTCA TTTCTGCCTA AACTCTTTAA AATTGCTAGT
68281 TGACAATTAG ATATTTTCAA TTTAATGAAA TTTTTTTTTA GTTCACAGAT TAATACACAA
68341 TGGGGGAGGG TTCTTATTCT GTTGGACTTT TACATAACCT CCACTTTAGT GCAGTCTGCT
68401 TTATGGGTC TTGTTTGAGG TGTGTGTGTG TTTAAGGGAA TGTGGTTTAC AATCAAAATA
68461 TTGGGTTGCT CTTAGGCACA TTGTAAAGTC ACACACCTGT ATTCTTATTG ATACATAATG
68521 ATTAATAACA TTATTATTAC AGCCTGATCA CCATCATTAT TGATATATCT AAATAATGAA
68581 TTTTATAATT TTGCTTCCCTG TCAGGCAAGA GCCAATTTCA GTGCTACCAT GTTTGTATAG
68641 CAGTATTTAT GTCTGTCTAT CTCAGTCATT TTAATTTTCA TGTCTTCTAGC CAAACGGCCG
68701 AGAAGCGATG GTCATTTTAC TTCAAAAATG AAAAGAATTA ATATTTTAC GTTTCCCTTA
68761 AAGACCTAT GTTTAACCTC CACTCCCGGG TAAAATGGTC TAGTCCCTCC TTTTCATATC
68821 ATCTCTGATA TCTTTTGAC AGCCACTATT ACCTACCGTT TTCTAGATCC CTATCTTCA
68881 AACACCACCA TGAAGGTAGA GCCTGTCTGA ATTATTTTCT TGTCCCGTGA ACTCAGTACA
68941 TTGTTAGGCT TCTTGAAGAT GTTGATCAGT TGTTTGTGGA GTGAATGAAT CAGCTAGCAT
69001 GATTTTCTA GACCACTGAG ACAAGTGTCT AAGACACTTG TTCCTTCCCA TGTCTTGGC
69061 TGCTGTGCA ATCCATGCAG TCTCATGGCT TCCAGTGCC TCAGAATTAT CCCCTGTCAA
69121 ACAGGCATTA TAATTTCTGT CCACTGAAAA GGACAAAAAA CTAAGTGTAT AGCTAGAAGT
69181 TAAAAATTAC CGGCCAGGTA CTGTGGCTCA CTCCTGTTAT TCCAACATTT TGGGAGGCTG
69241 AGGCGGGCAG ATCACCTGAG GTCAGGAATT CGATACCAGG CTGGCTAACA TGGCGACCCC
69301 GTCTCTATCA AAAATGTAAA AGTTAGCCAG GTGTGGTGGC TCGCACCTGT GGCCCCAGCT
69361 ACTCAGGAGG CTGAGGCAGG AGGATCGTT GAGCCCTGGA GGTGAGGCT GCAGAAAAAT
69421 AGGAATATAC TCTCTTTCAA GAGTTCGTGG TTTTGAAGTGC CACCTAGCGT ACATCAGAAA
69481 AACCGCATGA CATAGGAAAT GCCTGTGACA GAGGGGTAAG GTGAGAGAGG TTGATGAAGA
69541 ATGTATTGAA GGAGTGAAAA CGCTTCCATC CCTCTACTTA CTAATATAT TAGTTAAGTA
69601 GTTGGGGCAT ATTTTAATTC ATGCATTTTG TAGATAGAAA AACAAAAGTT TTATTCTGTT
69661 TGATTTAGTT GATACTTTAA TATGTGTGTG TTTAGGATGC ATGATTTATA ATCAGTCTGC
69721 AGCACTTCTT GGAGAAGTCT GAATTCAT TCTCCATTTT CTTATTGGCA ACGTGAGAAT
69781 GATTACAATG GTGGTTGTCT CATAGAATGC AGGGAGTCAG AATGAAAATA GTCCATATAA
69841 TGCCCTGGTG AGAGGAAGGG TTCAGTTAAC TGTCTGTATT AATATTACTG ATAACAGTCA
69901 TGACAAACAA AAGCTTAACA ACAACACCAC CAACAACAGT TGCAGAATTG AGCCACCAAT
69961 TTGCACACAA GATTGTAGGT AGGATGTTTT AGAAAAGTTA TTATTTAATA TATGTATATA
70021 TTTTGTACT TAAAATATGT CAGAGGTTGT TCTAAGAACT ATTTAAATGT TAACTCCTTA
70081 ATCCTCATAA TGACCCATGA AACAGGTAGG CTTATTATTG TCTCTTTACA TGTGAGAACA
70141 CTGAGACACG AAAAGGTTTA TTAATCACC CAAAGTCACA CAGCTGGTAA AACGGCAAAA
70201 TTGAATTTGA ACTCAGACAT TCCAGGTTCC AAGACAGTCT AATTATTCTT TTGACTAATA
70261 TACTAAGCTG CCTCTGTATT TTTCTTGAT TACTTTGTAA AAGTATGAGG AAAATATAAG
70321 TGCTTCAAGT AACCATGAAA AATATAACA ATCTATGTAT CAACTGAAGC ATAATTACAA
70381 ATCCTTTGAT AAGCAAACAT AATAAAATT TGATATCAAT CAAAACCTTC ATGTAATGTA
70441 AGCAGGTTGA GATGAATTCT ATAGTAAAA AGTGCAGAGT GCTGGAATAC CATGCTCCTA
70501 ATATATTGGC TAGGCACACC TGCCTGTCTAT CAAAGGTATG CACACACCTT GGATACAGAA
70561 AGTTGGGACT GGGTAGTTAT GTGAGTGTCA TCAGAATTCT TTCCCACTTG GGAAAGAATT
70621 GTCCATCATA AGCTTGGATG ATGGACAAGG AGTGAGCTCC CAGAACAGTG ATGTGGGGAT
70681 ACATCCTCAC ATCAGAGTGA GAATGAGTGT TCTAGACTGT TTACACACCT ACCACTCCTA
70741 AATGCACACA TATAATTGCT TGCACACACA CACATACACA CTCATCTCTT CTCTGGTGGT
70801 CCAGCTCTAT CTCTTATCAT TAGGCTTCTT GGGGCTAGTA CCTAGGGCCT GTATCCTTTT
70861 AGAGGCAGCT AAGGGAAGCA CACATAATTA GAAAGAATGA ACCAGCTTGT TGGATTTGGT
70921 CTCTTCGCAT CCAGCCCTCC AAGTTAAGGA GAGTACCATC TTTCTTAGG TCACCAAAGG
70981 AAAAAAATAA AAAAGAAAGA AACAGAAGGA TATCATACAG CAAGGATCTA ATGCAAAATAT
71041 GCCTCAAATG AGAGGCTACT GTGTGCTGAT CCCAATCCCA GGAAGTGTAT GCACATATC
71101 TAATTTAATC CTCAGTGTAT TTCTGGGAGT ATTATTCCCA TTTTACAGAG AAGGAACTTG
71161 GCAGGGTAAC CAAGCTCATG AATGGAGAAA CTGGGATTAA ATATAAAGCT TCCTTGCTCC
71221 AGAACTGCTG TCTTCTGCT CTTCCACACT ACCAGCTCAG CTGTGCTCTC TACATGCAGG

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71281 CAGTTTTACA AGTTTCAGAT TAGCCTGGGA CTTCCAGGGT TTTGAATGGG TTAGGGAATG
 71341 GGGAACTTTT GGGTTTACTT TCCATTTTTT CTTACATACAT ATGTAATATA TAACATAAAT
 71401 CTATGGTATA TATGATAAAT ATATGGCTAC ATATGAACTA TATAATCACA TATATGCATT
 71461 ATAAATAAAT ATTAATTTTA TAATATTTTA AAGGTTATCA AATAAATATT AATATAAATA
 71521 ATTAATAAAT TAATACTCAG CTTTGTTC CAAAGTGATA AATGCCTATA TTTAGCAAAA
 71581 TATTTTTTGG AGGCCTGATA GTTTTTAGGA GTGTAAAGAA GTCCTGATAT CTAAATGTTT
 71641 AAGAACCCTT ATTTTAGGCT GTTGTCTTCT GTCTTATTTT CCCAGCTAGA CTGGTAAATA
 71701 CTTGAAGGCA AACGTTTAGC CAGCACATTA ACATTTTATG TTTTATTCTT TTTGTGCTCT
 71761 CAGTGGCTGT GTCTTTTCTA TCGATTTCTC AACTGTATG ATGGTTATAT TTGTCTGTAT
 71821 CTGTCCCACC AGGTATAAGT TCTTGAGAGG ACACACTGCT AGGCTGATCT TAGTTTTTAT
 71881 TATTTCTCCT GGTGCTCTGT GCTTAACAAG TGCTCATTAA GTGTGTAATA ACACAGCACA
 71941 GTAAAAAAT AGACATTAAA AAATAATGTC AACCAATCTA TTGAAATTTG CATTTCCTATG
 72001 TTTCTTCCAA TATAGTCATT GTGTCAGGTT ATGTACTTAT TCTGATGAAG ACTATTGCCT
 72061 AATATACGTT TGCATCTTGT GCTTTATAAC TGCCTTCATA TAGACACAGA TTGAGAAGGT
 72121 GTAAAAATGT GCATATCCTC ACAATTGACA AATTCTTATC CTTTGAGGGT AGGTTTGACT
 72181 TTCTGAAATG CTTTGACATC ATTTGAAAGA AGCTTGAAGA ATAAGATAGC TGTTAATGAC
 72241 CCAGTTTCCT ATGTCACTTA TACAATTATA ATGGCAATTT CAAAATGTTA GGTAAATATA
 72301 TTTTGCAATA TATTGTTCCT TTTGTAATAC TCTCTATGTA TTTATTTATA TTTTAAATTT
 72361 TTATATTAT GTATTTATTT TTCTGGACAG AGTCTTGCTC TGTTGCCCCG GTTAGAGTGA
 72421 AGTGTTGTGA TCATAGCTCT CTGCAACTTC AAAGTGTGCTG GCAAAAGTGA TCCTCCTGCC
 72481 TCAGCCTCAT GAGTAGAGTA GCGGGAACCT CAGGCGCATG CCAGTGCACC CAGCTAATCA
 72541 CTATTATTA TGCTCCTACT GTGTGCTTTA GTATATTTTC TGTGTTTTTC TGCAACCCAT
 72601 TTTGAGGGCG TGTTAGGGAA TACAGATGCA GTAACTTTGG TCTCAGCCCT TGAGGTGAGG
 72661 AAATATTTAG CCTCAGGTTT AATCTAATTG TTGGCCATTT GCCTTCAAAG ATTGAAATAT
 72721 GAGCAAAACT GTGGCTCTGG GTTATATGTT AAAAAAAGT TTATGGGGCT GAAGCCAGGC
 72781 AACAGACAAG AGCCCTTACA ATCTTATTTA GGCTGAAAAT ATCTGGAGT CCCTGTATTG
 72841 TTGGTCTCAA GCAGATAGCA ACCTAATCAG TTAATCTTTG AGGCAGGCAC TGCCAGTGGG
 72901 GTGGCTGTTA TTATTAGCTT CATTAAATGG TGAGTCAGGA AAAAACAGCT TTAATCATT
 72961 CAAAGTTCTG GCCTATACAG GATTAGTAA TATTAGGTTA GCTACATCCA AAAGATGACA
 73021 GAACCCTACT CTAAGGCTGG GCTTGGTGGT TCACACCTAT AATCTCAAAA CTTTGGGAGG
 73081 CTGAGGCAGG AGGATCACTT GGTGCCAAGA GTTTGAGACC AGCCTGAGCA ACATAGTGAG
 73141 ACCCCTGTCT CTATCAAAAA CAAAGAACTC TAATTGGCAT AGTAGAAGGA AAAAGTGAAA
 73201 GAAAAACCAG CTGTCAACCCT CATTCCCTTAC ACCTGTCCTA ACAACTCCTC TCACTATCCT
 73261 TTGAATATAT CTTGGCTGTT TGAGTCTCTC TCTAGCCCCA TTAATGCTGT TTGGACTTGA
 73321 CATTTTGCTC TGCAATTTTA ACTTTTCTAC CAGGGTTTCC AGACCTGAA GAGTGTGGCA
 73381 TGAACAACAAA CTAGTCAACC TATAATATTT ATGATGTGTG TGTAATAAAA AGAATACACA
 73441 ATATATTGCA TTACAATATT TTAATCTGTG CCAATTTG TTTGTGGCTT TCTTGAGGAC
 73501 ATCAGTTTTG GGTGGGACGA CCACATCCTT AATCTGAACT TTCCCTTGGA GGTCAATCTT
 73561 TTTTTTTTGA AATAGAGTCT CGTCTGTCA CCCAGGCTGG AGTGCAGTGG CGCAATCTCA
 73621 GCTCACTGCA ACGTCCGCCT CCTGGGTTCA AGTGATTCTC CTGCCTCAGC CTTCCAAGTA
 73681 GCTGGGATTA CAGATGCACG CCACCATGCC GAGCTAATTT TTGTATTTTT AGAAGAGACG
 73741 GAATTTCAAC ATGTTGGTCA GGCTGGTCTT AAATCCTGTA CCTCATGATC TGCCCACCTC
 73801 AGCCTCCTAA AGTGCTGGGA TTACAGGCGT GAGCCACCCC GCCCAGGCCAG AGGTCAATCT
 73861 AATAGACTTT TTTTTGTTG TTGCTCACAG GCTTGTTCAT TCTTATTTCA AAATTTGAGA
 73921 AATACAGTTT CCATGGAACA CCAACCAGAT ATCAGGTTGC TATGGAGTTG ATAGTCAAAA
 73981 GCTTTGTATC TTCCAGTTTT TCAGAATGGC TTCTAAAGGT TCTGATTGAG AGCTCTTAGG
 74041 CGAAATTGAA CAACCAAGTG TCAAAAGTACA ACATTCAGGA AGTTAAAAAC ATGACTGACA
 74101 TATATGTACT ATATATAGTG AGCTTGTGTA TGTGTCAATG AATGATTATA TTCATTAAAT
 74161 AAGGAGGAAG CAGAATCACA ATTAGGTCAA AGGAAGATAC GGGAGAATAA AATATGTATT
 74221 TGGTCAGGGA AAGGATGTAT ACTGGAAGAG GAAGGGAAAA TCAGATATAA AGTTGTTTAA
 74281 TGAATTTATTA GGCAATACAA TAATAACTTT TAGGGTCATT TTTTCTATAT TAAGAATTCA
 74341 TTTCCATCTC TATGACAAAA TCCTTATTTA TTTATTAAAC TTCTACAAGT GAATGTTTAC
 74401 TTTTAGATAG TCTGGACCCA ATAAATGTA AACATTAAGT CAGAGTTACT TTCACGTAGG
 74461 ACAGTGTGTT CCAATAAGGT ACCACTAGCT ACACGTGATC ATTGACCATT TGGACTATAG

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74521 CTAGACTGAT TTAAAATGTT CTAAGAAGTGT AAAATACACA CCAGGTTCTG AAGATTTATC
74581 ATTTAAAAAA GAATGTCAAC TGTCTTTTTT TTTAGCTTAT TTATTATATG TTGAAGTGAT
74641 AATAGTTTAG ATATATTAAG TTAAATAAAA TATCTTAAAA TTAATTTTAC TTGTTTCTTT
74701 TCATTCTTTC AATGTGACCA CTAGAAATCT GGAAAGTATT TATGTGATTC ACATTCTATT
74761 TTACTGTCTA GTATTGCCTT ACATCATCAG GTACCCCAT AAGTAGGCTTT TTAGATAATT
74821 CTCTAATATA GCTTGGAAGG ATATGGAGAA ATATTTTTGC GTTGCTTTTA AGTTTTGCAT
74881 AACTTTTTCA ACACACTTTA TAAAGGATCT AGAAAAGGGT TGGTTACATG TTTCTCTGTC
74941 TTCTGGCCTC CACCATGTTG CCAGGAGGTT GGGGACAAGA TTCTGGGTGG CTGGATGTCC
75001 TAATGGCTTG AGGTCTGGAC TTGAGATTG CATATAAAGA GATGTGATTA GATTGAGTCG
75061 ACTAGAAAAA TCATATTAGA GAACCTGAATC ACAGCGATTA AATTTACATG TCGATTTATA
75121 AACCAGGACA CCAATTTTATA GTGAAAGAGG GTCCAGTTAC CTGGTAATCA AGACGTTTCA
75181 TAGCTATTTT CATGATGGAT ATACTTAGCT GAGTTTTTAA TGAGAAGGGG GTTCATTGCA
75241 CATAGAATAA GATCTAAGTG AAATGTTTAT TTATTTTTTT TTTTTTTTGA CATGGAGTCT
75301 TGCTCTGTG CCCAGGCTGG AGTGCAATGA GGCAATCTCG GCTTCTGGAG TGCAATGAGG
75361 CAATCTCGGC TTCTGGAGTG CAACGAGGCA ATCTCGGCTC ACTGCAACCT CCACCTCCCC
75421 GGTTCAAATG ATTCTCCTGC CTCAGTTTCC TGAGTAGCTG GGATTAGAGT TGCCTGCCAC
75481 CACGCCAGGC TAATTTTTGT ATTTTTTTTA GTAGAGATGG GGTTTCACCA TGCTGGCCAG
75541 GCTGGTCTCG AACTCCTGAC CTCAGGCGAT CTGCCCCGCT CAGCCTCCCA AAGTGCTAGG
75601 ATTACAGGCG TGAGCCACCA AGCCTGGCCT AAGTGACATG TTCTTATATT GTTCTTTTCT
75661 TTCTTTTTTT TTCGACTGAG TCTCACCTCG TTGCACAGGC TGGAGTGCAG TGGCGTCATT
75721 TCGGCTCATT GCAACCTCTG CTTCCCGGGT TCAAGCGATT CCCTTGCTC AGCCTCCTGA
75781 GTGCCACCAC CCCAGCTAA TTTTGTACT TTTAGTAGAG ATGGTGTTC ACCATGTCCG
75841 CTAGGCTGAT CTCAAATCC TGGCCTCAGG TGATCCGCC CCGAGTCTCC CAAAGTGCTA
75901 GGATTACAGG CGTGGGCCAC GGGGCCACG CTTATATTAT TTCTTTTACT ACAATATATT
75961 AGTATGATGC AGGTGCTTCA ATTGTTTATA CACTTTCCAT AATTTTGAT AATTCTTATA
76021 CCCTGTCACT CTGAGGAATA GCCGGTCTAA GTGTTTTTCC ACCACTGCTA ATTCATCCAT
76081 CACTAATCTC ATTAGACTGT TAATCCCAG AGGACATAAG CACACAAGCA GACAATGTTT
76141 ACAAATGTTG GACAAATGTT ATTTAATAAA ACAATGGGGT CACCCTTAGT CTAAAGATG
76201 TTTCACTTT CATTGTGCT TGAACCTTTA TTTGTAGGTT CCCTTTTGAC TTTCCACAA
76261 TCTAAGGCTG TTCTCTTAA CACATATTT CATGAAAACA TATATTGAG CAGAAATTGT
76321 TGGGGAGTTG TAATATTACC TTTGTCCCTA AATATGAATC TATAATTATA TCAAATATAT
76381 GGGCAGACAA TTTACTTTGC CTTTAATCTC AAGAAAAAAA TAGCAATTAC TTGGGGTCGG
76441 AGAGTAAAAT AAGAAGTAGT GAACCTTAAA GTAGCAAAC TTAGAACAGA ATAGTTTCAG
76501 AGGGGATGAG AAGAGGTGAT TTTTCAGCTC ATCAACAACA GATCTTATAA TAAATTACAT
76561 GTTCTGGTAC TTTTCTGTG TTTCTGTGT AAATTTTGCT ATTTAAAAAA ATAAATTTCA
76621 AATACATTGT TCATCTTAA AGTCAAGAGT GTGTTTATT AAAGTCAGTT GCTTTATTTG
76681 CAACTCAAAA GATATATTG AGTTCCCAAC TGGAGATTGT CCTATATGGT AACTTGCGTA
76741 AGGTATGGTT ACTGAAAGTA ACCTACAATT TTCTAGGGCT GAAATTCATT TCTATATTGC
76801 AGCGTACAAA AATAAATAA TAAAAAATGC TTGTTTTCTT TGAAAAACATA TTATCTCAGT
76861 GCCTCTAACT GCCAAATCTA TTGGCTTTTT TGCAGGCTTA AGGGCTCTCC CTTGTTCCCT
76921 TATGATCTCT ATCTTGAGGG CCAGACCTCC TGCCTTACAC AACTCAGAGG GGGACCTCAG
76981 AGCTCTTTAA AAAGAGCCCA ATTTCTCGCC TGTAGAGAAG TGAAAAGGAT GCCCCACCCC
77041 CATCTATGAA AAGAGGGATT TGATAGTTTC AATGTCTTCA AATCAAAGAT TTAAGTCTGT
77101 AGCCCCCACC CACCCCGGAC CCTAGCAAGC CTCATGAACC CCCTCCCATC CCGCCCTAAT
77161 TGCTTTGGAC TGGCCGTGGA ATCCTTGCTC CAGTCCACAG TTCCTGTGCG ACTGCACGAA
77221 GAATTCACAG AGGACCTGTG TTACTTCCCT TGTGAAGAAA CAGAATTATC ATGAAAAATT
77281 AGGTGGAAC CATTTGCTT TTTTCTTCAA AAATAAGGGA AGCATGTGCC CAACCAACCC
77341 TGGGAAAAAG AACCTTCAGG GGCAAAGGAG CGAACAGGTA ATTTATAAGA AAAACAGAAA
77401 GTGGTCTCTG ACTGCCCCAG ACTTCTCTCG GAGTTGGGG AATTGGGGAC GCCTGGACGC
77461 GTTGTTTTTG CGTTTGTTGA AAAAATAAAT GAAGAGCATG AAGCCCGAGG CTTCTGAGAT
77521 CCTTTCCTGA CCAAACCAA GTGATTGGT GCGGGGAATT TTAATATTTT TCCCTTTTGT
77581 TGAGGTGGAA CAAACACAAC TTGGGAGCAG CGCAGCGGCT CAGAGCCTGC CAGCCAGGCG
77641 GGCGACCAGA GCACCAATCA GAGCGCGCCT GCGCTCTATA TATACAGCGG CCCTGCCCAG
77701 ACGCTGCTTC ATCGCGCTT TGCCACTTGT ACCCGAGTTT TTGATTCTCA ACATGTCCGA

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77761 GACTGCTCCT GCCGCTCCCG CTGCCGCGCC TCCTGCGGAG AAGGCCCTG TAAAGAAGAA
77821 GGCGGCCAAA AAGGCTGGGG GTACGCCTCG TAAGGCGTCC GGTCCCCCGG TGTCAGAGCT
77881 CATCACCAAG GCTGTGGCCG CCTCTAAAGA GCGTAGCGGA GTTTCTCTGG CTGCTCTGAA
77941 AAAAGCGTTG GCTGCCGCGG GCTATGATGT GGAGAAAAAC AACAGCCGTA TCAAACCTGG
78001 TCTCAAGAGC CTGGTGAGCA AGGGCACTCT GGTGCAAACG AAAGGCACCG GTGCTTCTGG
78061 CTCCTTTAAA CTCAACAAGA AGGCAGCCTC CGGGGAAGCC AAGCCCAAGG TTA AAAAGGC
78121 GGGCGGAACC AAACCTAAGA AGCCAGTTGG GGCAGCCAAG AAGCCCAAGA AGGCGGCTGG
78181 CGGCGCAACT CCGAAGAAGA GCGCTAAGAA AACACCGAAG AAAGCGAAGA AGCCGGCCGC
78241 GGCCACTGTA ACCAAGAAAG TGGCTAAGAG CCCAAAGAAG GCCAAGGTTG CGAAGCCCAA
78301 GAAAGCTGCC AAAAGTGCTG CTAAGGCTGT GAAGCCGAAG GCCGCTAAGC CCAAGGTTGT
78361 CAAGCCTAAG AAGGCGGCGC CCAAGAAGAA ATAGGCGAAG GCCTACTTCT AAAACCCAAA
78421 AGGCTCTTTT CAGAGCCACC ACTGATCTCA ATAAAAGAGC TGATAATTT CTTTACTATC
78481 TGCTTTTCT TGTCTGCCC TGTACTTAA GGTAGTTCGT ATGGGAGTTA CTGAGGTATC
78541 AGAGACGAAT TGGGTGACGG GGTGGAGAG TGGCCGTGGT GAGGTTACAG CATTAAACC
78601 TTTATTGCGG CTTCTAGGTC CCTGACCGGA GGCTTTTCTC GCTGGCGGAT GGTTTTGGGA
78661 TGGCAGTCCC GCCCAGGCC TGTGAACGGC AGAAAAGACC GCAAAACAAG AGCCAGTTTC
78721 TTAGTCTAAA GGGATGTCCG GATTGGAATA AAAAATTTTC AAAAGTCCCG CCTGCTCCC
78781 GGGTTGGTCC GTTCTTCTAG TACATGACTT TCATTCTGTA TTTAATTGGA TGGTGAAGA
78841 CGTTGCTTAT TCTGTGTTTT TTGCTTTACT GTGACTTAAA AGTTTTGCCT CTTTTCTCTT
78901 TATATTAATG TCTGGGATTT CGGACGCTTT CCATGTTGTT GGTAGTCAAG TTGATGTCTC
78961 CTGGAGGTAG TGGCAACATC CAGCCCTGGG AGGAGAGTGC GTGCAGGTAC CTTTGTCTTA
79021 CATTCCTCTG CTGTTAATTT CTCATTCTCT TGGCAACGAA GGAATGCATT TAAAAAACAG
79081 CCACAACAGC GGCAATAGCC CTTCTCTCAC CCAAGGCAAT CGTGGACCTA GGGAGTTTTT
79141 TGTGCCACAT AACATGTAGC CTTCCGCTAA ACTGACAGGT TTGAGCGTAT CGATTTTGAG
79201 CGTATCGAAA GCACAACCTT TAGCCAGCCA TTTTGTCTC GCATGACTAC GGTGCTTAT
79261 CCTGTTTAGA CAGACAGCAA CATTAAAAA TCGAAGTTCC TTTAAACGTA TTTTGTTTGG
79321 CAGTCCAAAT GTTTCTATGC AGAAAACAGT ATTTGTACTA TTAACATGA AGAGTGTATG
79381 GATAAATGGG AGACATTCT AATAAAGGCC TTCGTTAATG GTTCCCTCTG TTTGACATCC
79441 ATGGTGCTTC TGAATACAGA AAGCCTAGCG TCTTATATTC GCTTCTTTTA AAATCTGGTG
79501 GGCACATTTT GGTGAGACCT AAATTATGGG GACTGGGGCT TCTGGAGATA AGCTGCTCAA
79561 TTATTCTACC ATCTCCACAA TGATTAATAT AGTGAGTTGA TTTGTTAGTG ATAGTGACCA
79621 CGGATTCATC CCAAGAAAGA GAAAGGGGAG GGAGGCAAGC AGAGAGACAG GAAGACAGAG
79681 GCAGGGAAGA AGGAGAAAAC ATTCTCCCAT GGTTTAAGTA ATTTGTGTT GTTAATTTTA
79741 CATTACAACA CGGTTTAACA TGGTGAACCC TCTATTTTGG TGTAAAGTTT AACATATGGA
79801 CATATTTTTT CCAAGACCAT TTATGAACTT TCATTTCTGC TCCCCCTTC TTCTCCCGT
79861 GCCACCCTCC ACGCTCCTAT CAATTTTGGC TGTTTTGTCA TAGGCTAATA CGCTATAATT
79921 TCATGGACAG TTGGACTGTC TTAGGTTTCT CAGGTTTCTA TTTGTTCTCT TTAGTCATTC
79981 CCACAATTCT TAAGGTAGAA TTGTATTGTT TTAACATTG TGTTGTGTGC TATCTCAAT
80041 GCTGAGATGA TTATGTGACA AATGGCAAGT GTTCAACTAA TACCTAAATC TGTAGTATCT
80101 TATCAAGCCT AATGCTACTT CACAATGCCT ACTCCATTCA CCGCACTTTA TCTCATTACT
80161 GGCATTCTGT CATCTCACAT CATCACAAGT AAAACGGTAA GCTATTTTGA GAGAGATCAC
80221 AGTCATATAA TTATATTTAT ATTTATTTAT TTATTTATGA GACGGAGTTT CCCTCTGTCA
80281 CCCAGGCTGG AGTGCTGTGG CACGTTCTCG GCTCACTGCA ACCTCCGCCT CACGGGTTCA
80341 AGCGATTCTC CTGCCTCCGC CTCCCAGTA GCTGAGATTA CAGGGGCTG CCACCATGCC
80401 CGGCTAATTT TTGTATTTT AGTAGAGACG GGGTTTCACT AAGTTGGCCA GGCTGGTCTC
80461 GAACTCCTGA CCTCAGGTTA TCCGCCACC TCATCTGCC AAAGTGCTTA GATTACAGGC
80521 GTGAACCACC GTTCACAGAC TCAAATCATT TTTATTACAG TATATTGTTA TAATTGTTGT
80581 TTTATTATCA GTTATTGCTA ATCTCTTACA GTGCCTGATT TATAAATTAA ATTCATCATT
80641 GCCATGTGTA TATAGAAAAA AACAGTGTAT ATACGGTTCA GTACTATCTG TGGTTTCAGG
80701 CATCCACTGG GGGTGCAATT TATTAAACAT GCATTACAT TAGTCTCCCC TTTGGGAGAC
80761 TAATTAACCTG AGATGTTGTA ACGTGACTTT AATAGCAGAT AGAGCTAATT TTCTCTCATT
80821 ACTCTTCTTT TTCAGAATTT TCCTGGTTAT TCCATTTTTT ATTTTCCAT ATGTATATTA
80881 AGATCTCTTC CACCTCCTCC TGTTTCTCCA TCTCAACATC AAACAATTAA AAAAAAAA
80941 AAAGGCTGGG CGCGGTGGCT CACGCCTATA ATCCAGCTC TTTGGGAGGC CTAGGCGGGT

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81001 GGATCACGAG GTCAGGAGTT CAAGACCAGC CTCGCCAAGA TGGTGAAATC CCGTCTCTAC
81061 TAAAAGTATA AAAATTAGCC AACCATGGTG GCAGGCGCCT GTAATCCCGG CTACTCGGGA
81121 GGCTGAGGCA GAGAATTGCT TGAACCCGGG AGGCGGAGGT TGCAGTGAGG CGAGACCTTG
81181 CACTCCAGCC TGGGTGACAC AGCGAGACTC CGTCATAAAA AAAAAAGCCG GAAGCAGTGG
81241 CTCACGCCTG TAATTCCAGC ACTTTGGGAG GCTGAGTCAG GCAGATTACC TGAGGTCAGG
81301 AGTTCAGGAC CAGCCTGGCC ATGAAAATAC AGCCTGGCCA TGAAAACACA CAATAAATTA
81361 GCTGGGCGTG GTGTACACA CCTGTAATCC TAGCTACTCG GGAGGCTGAG ACAGGAGAAT
81421 CACTTGAACC CAGGAGGCAG AGGTTGCAGT GAGTTAAGAT GACGCCACTG CACTCCATCT
81481 GGGCGACAGA GCCAGACTCT CTCTCAAAAA ACTAAATAAA TAAAAATAAA GTTATGGTAC
81541 ATTGAACCTT TGTGTTCCCT TCTCCCTTAG ATACTTTCAT GGCTACCCAT TTAATTGATG
81601 TTCTTATCAT CTCCAAGAGT TAGTCAGGAG AGGAATCAAC CCAAGCAAAA ATAGTGAAT
81661 TTCTAATTTT CCTTCAATGC CCTTTGGGGT CTTAATCCAT TTGATTTATG TACTTTCAAT
81721 TAATCCTAAC CTCGAATGTC TCTGCAAAAC ATGTTTCCAC AGATGAAACT CGTCAAATGA
81781 AACACATTCC TTTAATTTAT AGAGTTAAAA ATTAGAAAAA TTTTCAATTC TATTTGGCCT
81841 TTAGATTCAG TCTTGCATAT GTTTTCTCAA TTTTGTTCAT GCTCTTTAGT TTTGTTTTAT
81901 TCCATCACAA TTGTTTACAT AGCTTACTGG CTTAGGTCTA ATGAACCATT CATTGGGAAA
81961 TTAATAATTG CCATTTTAAG ATGAAAAGAA TTCTTGCCCT AATTTTACTT AGTTTTTGAA
82021 ACTGTCAATG AGGACACATG TTTTCTGTGA CTCTTAGATT CACTAAGTAG TGTCTTGCAA
82081 ATTTAACTGA CAAAGGACAG ATTAACATGC GAAAAAATAA GCATGCAATT TTATTAGTAT
82141 ATTACATGCA CAGAGTTCCC AAAGAAAAAA AAATTGAAAC CTTAAAAACG CGGTTAGACT
82201 CACAGACTTA TACACCATTG CAACAAAGGA AAGGGAGTTT GCACTTCATG GGATGACGAA
82261 TTTGGGAATG TGACAAGGAA ATAAATACAT GGGCAATAAA AACCATGGAA GATAAATGA
82321 AAGATAGAAA TAATTGTAGT AAGGTTTGTG TTTGTCAGAGT CATCTCAGTG CCAACCTTCC
82381 ATATCTAGTG ATAAGAATTG CTCTCTTTT CTTGGTATAG CAGTTGGGGA CACTTTTACA
82441 AGGGAAATTT CTGTCACCTT CACAAAGGGA AATTGGGTA AAGAGAAGAC AGAGACCTCT
82501 TCCTACACCT GTTGATTTTC AATTGCCTTC AGCTGAAAAT AACTTTTATG CCAAAGTAGA
82561 ATAAATTGGG GGTGACATCC TGATATTCTT CAAAATTAT ATTTAATTTC ACATTAGTAA
82621 TTATATCATT TTTGATTTT AAATTAGTTT TATAAATAA TTTTGAAAAA CGGTAATAAT
82681 ATTCAAATAA TTCCAGAAAC ACTGCTGATA AGCCAAAAAC ATCAATGAAT ATTGCATAAA
82741 CAACTGATAA TTCAACCATG AAAATTTATG ACATTGTTCT TGTGTGATAA AACTATGAGT
82801 AACATAAAAA CTAGAGGCTA CTTGTAATGC ATTATCCAA ACTTCTGTT TTTTATTTAT
82861 TTATTTATTT ATTTGAGAC ATAGTCTCTC TCTGTCACCC AGGTGGAGT GCAATGGCGT
82921 GATCTTGGTT CACTGCAGCC TCCACTTCCC CGGTTCAAGC AATTCTCCTG CCTCAGCCTC
82981 CTGAGTAAGT GGGATTACAG GCACCTGACA CCAAACCCGG CTAATTTTTT TGTATTTTAA
83041 GTAGAGACGG GGTTCGCCA TGTTCGCCAG GCTAGTCTCG AACTCCTGAC CTCAGTGATC
83101 CACCTACCTC GGCCTCCCAA AGTGCTAGGA TTACAGGCGT GAGCCACCAT GCCCGGCGCA
83161 TTATTCCAAA CTTTCATACA CAGTGCTATC ATGGCTACAA ATTGAAGTAT CATATTATAC
83221 ACTCCTAGGC AAAGCTCTGG ATATTTTGGC TATATAAGCC TGAGGGAAAT GTAGTAAGGA
83281 CATTGTGGTT GAAATTCATA CCAGAGATGA ACAGGCCAG TGCAAGACAG AATTACATCA
83341 CTAAAGGATA TCAGAAGAGA ATAGGGATT AGGGTACAGT GGCAACAACA GTTTTGGGAA
83401 CTAGCATTTT TTGAGCACTT ATTTACAATA TGCCAAGCAC TGTGCTGAT TACTCTATAT
83461 TTATTTTCAA ACACATTCTT GTCACAGCAC TTTGAAGTAA GTGCCATTGT CATTCCCACT
83521 TCAGGGTGAA GGAATAAGC TTGGTGTCAAT TAAGGATGTA GCTAGTTAGC TGTGTGTGTG
83581 TGTGTGTGTG TGTGTGCATT TTTTTTAAA TTTAAAGTCA ATAAATTTTT ATTTGAAGAA
83641 TTTCACATCA AGGTAACTT TGTTCCTCTA AAGAGCTGGA GTCAAAATGT ATCTTCAAAA
83701 GATTCATCTT CAAGTTAGCC CTTCTTAATA GAACTGATGC TTAATCCACA GTTGTAGGCC
83761 CACAGTTCTT TTATTTTGAC TTTTTTTTTT TTTTTTTTGT AGACGGAGTC TCTCACTGTC
83821 ACCCAGGCTG CTGGGCACTG GCGTGATCTC GGCTCGCTGC AACCTCTGCC TCCCGGGTTC
83881 AAGTGATTCT CCTGCCTCAG CCTCCTTAGT AGCTGGGACC ACAGGCGCAT GCCATCGTGC
83941 TCGGCTAATT TTTGTATTTT TATTAGAGAC AGGGTTTCAC TATGTTGGCC AGGCTGATCT
84001 CAAACTCCTG ACCTCATGAT CCGCTGCTCA TGGCTCTCA AAGTGCTGGG ATTACAGGTG
84061 TGAGCCACTG CACCCGGCCT TATTTGCCT TCTTAACTC CCATTGAAC ATGGACATAC
84121 TGATGAAAAC TACAACATTC TTCACCAAAA ATCTTGGGA TTTAATTTCT TCAACCACTT
84181 TACTTTGGGG TCATTTTAAG ATTAGGTGTA TCTGCCTGGT TCTCAATTTG ACACCTTTTC

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84241 TCTCTAAACA TGAATGAGTT CCAATCATAT TTATTCCTAA GCTATCACAC TCAAATATAC
84301 TACAGATCTG TGGAATATGC CAAAAGTTAA GGTGAAAAAT TAAATTATTA GGTATTTTCAT
84361 AGTTTTGCTA GTTTTTGATC TGTGAGTGAA TATAACTATC CTCTATGTCC TGGCACTGTT
84421 CCTCAGAAAC ATAGGGTCCA CATATGTAAT TTTAAATTTT TTAATAGGCA CATTTTAAAA
84481 AGTGGAAAAA GAAATCTATT TTAATGATTT GAATCCAGTG TAACCAAAAA TTGTTTCAAC
84541 AAGGTATCTA ATATTAAAAA ATTGAGTTT TACTTTGTTA TTTTACTAGG TCTTTGAAAT
84601 CTGGTGTGTA TTTTACACTT AAAGCACATC ACAGTTTGGA GTAGCCACAT TTCCAATGCT
84661 TAATACTCAC ATATGGTTAG TGGCAACTAT CTTGGACAGG ACAGCTTTTA TACTCTGGGA
84721 AGACACAAGC AAATACTTGC TCTGCAGCAG AATCCAGATG TTTTCCAAGA AAACACTTTT
84781 TCTGACCTGT TCGTGAAACC CAGGTAGTGT CTCTAATACT TTATATTTTA TTGGTTTGTG
84841 CTATTGTAAAC CACCCAACGG GCTCTCCTTG TCCACTTCCT AGACAGAGCT GATTTATCAA
84901 GACAGGGGAA TTGCAATAAG GAGCCAGCGC TACAGGAGAC TAGAGTTTTA TTATTACTCA
84961 AATCAGTCTC CTTGAGAATT TGGGGACCAA AGTTTTTAAG GATAATTTGA TTGTAGGGGA
85021 CCAGTGAGTC GGGAGTGCTG CTTGGTTGGG TCAGAGATGA AATTATAGGG AGCCTAAGCT
85081 GTCCTCTTGT GCTAAATCAG TTCCTGGGAG TGGTGGGGTG GGGGACTCAA GACCAGATAA
85141 TCCAGTTTAT CTATATGGGT GGTGCCAGCT AATCCATTGT GTTCAGGGTC TGCAAAATAG
85201 CTCAAGCATT GATCTTAGGT TTTAAATAG TGATTTTATC CCCAGGAGCA ATTTGAGGTT
85261 TAGAATCTTG TAGCTTCCAG CTGCATGACT CCTAAACCAT AATTTATAAT CTTGTGGCTA
85321 ATTTGTTAGT CCTGCAAAAG CAGTCTGGTC CCCAGGCAGG AAAGGGGTTT GTTCTGAAA
85381 GGGCTGTTAT TGTTTTGTG TAAAAGCAAA AGTATAAACT AAGCTCCTCC CAAAGTTAGT
85441 TAATCCCAA CTGAGGAATG AAAAGGACAG CTGGAGGTT AGACGTTAGA TGGAGTCGGT
85501 TAGGTAAGAT CTCTTCACT GTAATAATTT TCTCAGTTAT GATTTTGA AAGGCAGTTT
85561 CACTGTCCAC TTCACCTCAC ATCAGGCCTC TGACTAGAGG ATTCCAACAA TACTTAGGCC
85621 AGGACACCAC CATGTCTCCT TATCCACCCT GAGGGATTCC AATTCTGAA ACAAGGAAA
85681 CTATATATGA TAGTATGAAA CTATATATGA GAAGGAAATT ATATATGATA ATCAATTTTA
85741 GGGTTATCTT ATTGATTAGA AGATATTAAG GTGTGACACT GCCTGGCAAT GATATCTGCT
85801 GGTAGTAAGA ATTTGGCGAA TTAGTGAAA TTCCTGAGGC TGAACCTCCA CTTCTGTA
85861 ATGGAGACAG TGAGATAATT TGCTTACAA TGCTGAAGTA AGAATTTTAC ACAATAATTC
85921 AGACCAACCA CTTCATGTGG TACTTGGCCC GTGGAAGACT ATCAATGACA GTTAGTTTAT
85981 AGTTTATACT ATTAATGAAT CCTTGTGTTT ATTGTTATTT CCTTCTACAC GTTGGCCTCT
86041 CTAAAAGAAG GTAATATTCA ATACAAATAA AGTTAAACA GCTTGCAGAG TTGTCCAGG
86101 GAACTCACTT AACCACGTAA GTGTTCAAAT TGCTTAAGGT TGACTTTATA TTCTCTGAC
86161 TAACCTTTCT CCTTCTGGTA TTCTTCTGA GAACAGCACC ACCATCCAA GCATCATGCA
86221 AACAGTGGTC ATCCAGACC AGTAATTCTC AACTCACAGG GTGCTCCTGC AGAGATGTAT
86281 TTGAATAGAG TGGTAGGATG CTGAAGAAGG CCACGTAAAA TTTGGCCAGT GATCTGGGGC
86341 AGATTTATCC TGAAGCTAAT GAAACACAAG TGTAAGGGCC TGTACTTCCA AGGTGCAGAG
86401 AGGGGCCCTA CAAATGTGTT AGTTTGTCTC TCTCTCTCTC TCTGATTTTA AAATTTGCAG
86461 TATTAAGGTA CTTTAATCAC GGATGGTTCA GGCTGCTATT TCACTCAAT CCTCCTTTT
86521 ATTAATAATCA CCATTGTCTG ATTATGTTAG AATCCTGATG AAAATATTTG GAATTTGAGT
86581 AAGAGAAAGT TTAGTTGAAG ATGTATCTAG TATGGGGATA ATAAGTTACG TGATTTGCAT
86641 ATGTGATCAT GTGTACTTCA TTCGTTGCCA GCCAATCTGA CGTAAGAATG GCTTCAAGGA
86701 GGCCGGGCGC GGTGGCTCAC GCCTGTAATC CTAGCACTTT GGGAGGCCGA GACGGGCGGA
86761 TCACGAGGTC AGGAGATCGA GACCATCTTG GCTAACACGG TGAAACCCCG TTTCTACTAA
86821 AAATACAAA AATTAGCCGG GCGTGTGGC GGGCGCCTGT AGTCCCAGCT ACTTGGGAGG
86881 CTGAGGCAGG AGAATGGCAT GAACCTGGGA GCGGAGCTT GCAGTGAGCC GAGATCGCGC
86941 CACTGCACTC CAACCTGGGA GACACAGCGA GACTCCGTCT CAAAAAAGAA AAAAAAGAA
87001 TGGCTTCAAG GAATGTTCCCT ACTGCTCACT GGAATAACTC ACCTAAATTC CTGGCAAGAT
87061 GCAGGTCTAG ATAAAATGTT ATGACATCTA AGATTTCAA ACACATTCCC AGCACTGAGA
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87181 TACAAAGTTT ACAACTTACA TGTGAAAGGA GCTTAACAGA GGATTTTCCA AATTTGAAAA
87241 CAATCCTAAA AACTTACTTG ACATTACCAA TAATGTGTTT TGAAACTGAA ATACTTCTAA
87301 GTTATGAAGA AAACATATTA TCATCAGCCA CCCTGGAGGA AAGATTGAAT TCTATTTCCA
87361 TTACCTATAG ACAACATTAC AAAATAATTT CGATCTGAAG ATGGAATCAG AGTATTCAGT
87421 CAAAACCTACA GGAAATATA CTTGGTAGTG TCATATTCAG AAGTTAATAA AATATGCTAT

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87481 TTTCTGAATT TTGTGATGGC TGTGTTTTTG TCAGCTTTTA TAAAATTGGA ATTTGATTTT
87541 ATTTTCCCAT TATAAATTTA TATTTACAGT CTGCAGTACT TTTGCATTTT TAATTTTACA
87601 TTATAGCTTT TAATAGTTAA CAAGTTGTAA AAGGTTTGAT CCCCAGAAAA CCTTGATCTA
87661 CCCCCTCAGT TAAGTATACT AATATATTTA GAAAATGGAT GAAATCAGCA TTTGAATATT
87721 TTTAAATATT TATTTAAAGA GGACATGGGT AAAAGAGCTT TGCAGTTGCC ACCCTTCATT
87781 CTCAAATTCC CTGGATAAGG ATGACCGCAT AATCTTTGGA TGGTCATACG CAAGTCTTGT
87841 GTATTTGTGA CATAAATCTA TTTAGTGGAC TTTTGGCAGT GTGTACTGAG GCCAGTTTCT
87901 TCCACCTGAG CTCTGACTCC ACCTCCAGCA GCCCAAACC AATACTGAAT TTTGGGGTCA
87961 GCTATTGTTT TTGTGGACTT AGGTAACCTAC ACACACATTG TCTTTATGAT AGCTTTAATA
88021 ATACTGCCAT CAGAACTAAA ATTGTACAGT GGATTAAAAG GAGTGACGGT GGTGTCCCCA
88081 GGAGCCTTTC AATATGTAAG TATTTACACA TATACATGCT AAAAAGACCC CTAGGAATTT
88141 TTTTAACAAG GGCAAAACAG TAACTCAGCT TGTTTTCTCG CAGTAAACC GGTGAAAAG
88201 GCCTGATAGA CTTGTCTGCA GTTACAAAC TTGTGTGTAG TTATCACCTT TATATCTCCT
88261 GGAAACTAAC ATAGACAACC GAATGGGTTA CAACTGTTTT TAAGTGAAT TGTGAGTGGC
88321 TCTGAAAAGA GCCTTTTCAA TGAGGAAGAA ACGGGCAGAC TTATGCCCTT TCCCCACGGA
88381 TGCGACGTGC CAGCTGGATA TCTTTGGGCA TGATGGTGAC GCGTTTAGCG TGAATAGCGC
88441 ACAGATTGGT GTCTTCGAAG AGTCCCACCA GGTAGGCCTC GCAAGCCTCC TGCAGCGCCA
88501 TCACCGCAGA GCTCTGAAA CGCAGGTCGG TTTTGAAGTC CTGGGCGATT TCTCGCACCA
88561 GCGCGCTGAA CGGCAGCTTC CGGATCAGCA GCTCGGTGGA CTTCTGGTAG CGACGGATTT
88621 CGCGCAAGGC CACGGTGCCC GGGCGGTAGC GATGAGGTTT CTTACGCCA CCGGTGGCCG
88681 GAGCGCTCTT ACGGGCTGCT TTAGTAGCAA GCTGCTTGCG CGGAGCTTTG CCGCCGGTAG
88741 ACTTGCGAGC TGTTTGCTTC GTACGAGCCA TTTGCAATGA GAGCACACAC AAAAGTGTAG
88801 TGAACGTAGA GCAAGTGGCC TTTAAATATA GTGAGAAACA TTCTGATTGG TCCTGTAATA
88861 TTTCAAAAGT CCGCGCGCAT AAAATCATTG GCTGAAGAGT GACCAGACTT ATTGGTTTCT
88921 TACTAGACAA TCTTATTGGA TGAGTTGCC CACCGCCCAT CCTGTCCTTT TCCTTTTCTG
88981 TATCTGCAGC GACAAATTGT CTAAAATTCT AGTTCATCCA GTCCCAAAGA ACAGAGTGTA
89041 TAACAAGGTA TCTAAGGATT TTTAAATGT AAATCCGAT TCAGTAAGTT TGAGTGGGAC
89101 TTGAATTTCT GCATTCTGA CAGTCTCGCA AGTTATCAAT GCTGGTGAAC ACTCACTAAA
89161 CCACCAGAAA CGTTCAGACT CATGTCGGGA AATAACGCTT ATATTCAGAG AATGAGATTC
89221 CATGCTATTT TGTTACTGGC GAACAGCAAG TTTCTTGCC CTTTGTTTTT TAAGTCCAAG
89281 TCACATTTCC ACCCTGCCTG TTCTCAAAAT GTCTTATTTT GGTGCGCTT AAGTTTCACT
89341 TTGTATACTC TAAAATGTAC TTTCTAAAGG AAGGTGTTAT TTTCTCGAAA CTTAACTTTT
89401 TAACACCATT AGGCTAGGGG GCGGTGGCT CACGCTGTA ATCCAGCAT TTTGGGAGGG
89461 CGAGATGGGA CGATCACTAG AGGCCAGGAG TTCAAGACAA CCCTGGCTAA AATGTGAAA
89521 CCCCCTCTCG CATAAAAATA CAAAACTAG CTGGGCGCGG TAGCAGACGC CTGTAATCCC
89581 AAGTACACAG GAGGCTGTGG CATGAGAACC GCGTGAAGCG GCGGGGT3GA GGTGTCAGTA
89641 AGCCGATATC GCGCCGCTGC ACTCCAGCCT GGGTGACAGA GCTAGACTGT CTCAAAACAA
89701 ACCAATCCAA ACGAAAAGCA AAAAATACCC TAACAGAAGC AAGTTATCAT CCTTCTTGT
89761 GTAACATATG ACGGCTCTGA AAAATGCCGT TTCAAGTGTA AGCTACGTTT TCTGATTGTA
89821 GTGTTTACTT GACCTTGCC TTATCGTGGC TCTGTTATTT TGGCAACAGG ACGGCCTGAA
89881 TATTGGACAG GACGCTCCC TGAGCAATAG TGACGTTGCC CAGCTGCTTG TTGACCTCCT
89941 CGTCGTTTTG GATGGCCAGC TGCAGGTGGC GGGGGATGAT GCTGCGGGTC TTGTCACGTA
90001 TGGCGCTGCC CACCAGTTCT AAGATCTCGG CGGCCAGGTA CTGTAAGTAC ACTGGCGCAC
90061 CGGCTCCGAC CGGCTCAAAA TAATTGCCCT TTCGAAAAAG ATGACGGACT CTGCCCTATT
90121 GGGAACTGCA AGCCCGGTAG CGACGAACAA GTTTTTGCTT TAGCTCCATT TTCCACGTCC
90181 GCAAATAGCG ACCTATGAAA GCAGCGGAAA ACTGTGAAAG ACAAGCAAGC TGAATGGCG
90241 CCTGAACAAA TCCTTTTATA CAACTGCAA GGCTGCAATA GGAAGCTATC CTATTGGTCA
90301 ATTATGTTTG GTGCTTTATC CAATAGAAAA AGATAACATA AATTCCATAT TTGCATAAAC
90361 CCCACCCCTC AGTGAAACCG TGTTTCTTTT GTCCAATCAG AAGTGAGGAA TCTTAAACCG
90421 TCATTTGAAT CTCAGGACTA TAAATACATG GGCTCTGAAC TGTTCTCTGT ACTACTCTGT
90481 AGTGGAGAGT GTTAGTAGCT TTTCTATTCT GTTTAGGAAT AGCAATGCCT GAACCTCTA
90541 AGTCTGCTCC AGCCCTAAA AAGGGTTCTA AGAAGGCTAT CACTAAGGCG CAGAAGAAGG
90601 ATGGTAAGAA GCGTAAGCGC AGCCGCAAGG AGAGCTATTC TATCTATGTG TACAAGGTTT
90661 TGAAGCAGGT CCACCCCGAC ACCGGCATCT CATCCAAGGC CATGGGGATC ATGAATTCCT

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90721 TCGTCAACGA CATCTTCGAG CGCATCGCGG GCGAGGCTTC TCGCCTGGCT CACTACAATA
90781 AGCGCTCGAC CATCACCTCC AGGGAGATTG AGACGGCTGT GCGCCTGCTG CTGCCTGGGG
90841 AGCTGGCTAA GCATGCTGTG TCCGAGGGCA CTAAGGCAGT TACCAAGTAC ACTAGCTCTA
90901 AATAAGTGCT TATGTAAGCA CTTCCAAACC CAAAGGCTCT TTTCAGAGCC ACCTACTTTG
90961 TCACAAGGAG AGCTATAACC ACAATTTCTT AAGGTGGTGC TGCTGCTATT CTGTTTCAGT
91021 TCTAGAGGAT CAACTGGAAT GTTAGCGAAG ACAAGTTTAA GAGCCAAGGT TAACTTGGAC
91081 GGGGCCGTGC GCGGTGCCCTC TTGCCTTTAA TCCCGGCAAT TTGGGAGGCC GAGGCGGGCG
91141 GATCACTTGA GGTCTGGGAGT TCGAGACTAG CCCGGCCAAC ATGGCGAAAG CCCGTCTCTA
91201 CTAATAATACA AATGATAGAC GGTCTGTATG GCGCTCTTTC TCATCTGTCT TAGCAAACCT
91261 CTTTGTTCCT CCTGGGTAAG CCTTCGGGTA CTATGTATAA TTCCTTTGAT AAGGTCACCTA
91321 CTCCCTCCCT GGTCTAGTAC AGGAACTTTC CCTTTCTGGA TAATGAAGCA GGTAATGGAA
91381 TTCAGGGTAT AGTGTTCCTG TGGGGGTCAT TAGCCGTTAA CTTCTGTGTA GATGCGGGGG
91441 AGGGGAGCAG AAAAGTCTAA GCGACAAAAG GGCATGTAGG GATATTTGCT CCTGCAGCTT
91501 GCCTATGCTG TAAATTCTTA CTTCAAGTAT TGAGGAAACA ATAAGCGAAG TCTGATTTCC
91561 CGGGCGCCTT TATACGGAAT ATTTCCCGCT CCACAAAATG AAATCGCAGT AGTTTGTAGT
91621 TATAATTGTT TATCAATGAC AACAGCTATG TAGTTTACAT ATTTCAATGCA TCCCAGAAAT
91681 CCAGATTCCC ATTTCCCTAAG CCACCTAACG TTCTGATTTT CAGCTCTGCG AGATACAAAA
91741 GGGTTTGGAT TTTGTGCCCT TCCCCATCTG GCGCCACTGC AAAGCTTACT AGGAGGGCCC
91801 CACTTGGAGA GGGAAATCTT TTTGAGAAG TCCAGGACGC CAAAAACAAT ATAGCTAAAA
91861 AAAAAAAAAA AAAAAAGGCA GGAAGAGCAC TAGTTGAGGA GGAGGACTCA ATGGGCCAAT
91921 TCTGGGGCTG GGGCTGGGGG AAGAAATGCA AGAAGAAAAG ACACCTTGTTG ACTGCACAGT
91981 AAGCAGGAGG GGGTGGGGGA ATCGGAGGGG AGTATTTTCA GCGAATTTAT GGGCATTTATA
92041 TGAGGTGAC ATACAGCAGT GTCTTTGGAT GAAGAAATAA AGTTTCTCAA ACAGTTCTTG
92101 TTTTGTGTTT GAGAAAGGGC CTTTCTCTGT CGGCCAGGCG CCATCATAGC TCACTGCAAC
92161 CTCGACTTCC CCAGCTCAAG CGATCCTCTT ACTTCAGCCC CTGAGTGGC TGGGACTAGA
92221 GAAATGCACC ACCATACCCA GTTAATTTTT TAATTTTTTG TGGAGGCAAA GGGTCTTACT
92281 TTGTTGCCCA GGCTGGTCAA GCGAACTCCT GGGCTCAAAT GATCCTCCCG CCTTGGCCTC
92341 CCAAAGTCCT GGGATTATAG GAATGAGTCA CCGCGCCCGG CCCAGATTTA ATTTTTAAGA
92401 ATCTTTTAAA AGAGGTTCTG GGCCGGGTGT GGTGCAGCTC ACGCCTGTAA TACCAGCATT
92461 TTGGGAGGCC AAGGTGGGAG GATCACTTGA GCCCAGGAGC TCAAGACCAG TCTGGGCAAC
92521 TTAGTGAGAC CTTTGTCTC CACCAAAAAT TAAAAAATT AACCAGGCCT GGTGGCACAT
92581 TTCTGTAGTC CCAAGTACTG GGGAGGCTGA AGTGGGAGGA TCATTTGAGC CTGGAAGGTG
92641 GAGGTTGCAG TAAGCTGTGA CGGCACAACCT GCACTCCAGT CTGGGTGAGG ACAGACCCTG
92701 TCTCAAAAAT AAAAAATAAA AAAAAATCTG GATGCCACAC AAAATGTCAG TGAACAACATG
92761 TAAGTGAAGC ACTTCCCATC CTAGTACTGT ATATGCAAAC TGCCGTTGTG AAAGTGACGC
92821 TTGGCTTAAA AATCTACATT CTTTTTTTAA TTATAAACT ACCACATCCC CAAAAACAT
92881 TACTAAGGAA TTGAGGCTGC AGTTTAAGAA GCTGATATTT AGGATCTATC TCCGGAGAAG
92941 TGAGACCTGG TAATATAAGC ATTTTCAAAA TGAACCTTTG GGCCAGGTGA GGTGTGTCAT
93001 GCCTGTAATC CCAGCACTTT GGGAGACCTA GTCAGGCAGA TCACTTGAGC TCACAATTCTG
93061 AGACCAGCCT GAGCAACATG GCGAAATCCA GTCTCTACAA AAAATTAGCA GGGCGTGGTG
93121 GCATATGCCT ATAGTTCCAG CTACTATAGA GGCTGAGGTG GGAGGATTAC TTGAGCCCGG
93181 GAGGCAGAGG TTGCAGCAAG CCAAGATCGC GCCGCCACAG CCTGAGCGAC AGAATGAGT
93241 ATGCACCCAC GCCCTAAAAA AAAGCATGAC TCATTAAAAA AAAAAAATT AGCCGGTTCG
93301 GGTGGCTCAC GCCTGTAATC CCAGCACTTT GGGAGGCCGA GGCGGGCGGA TCACGAGGTC
93361 AGGAGATGGA GACCATCCTG CTTAACACGA TGAAACCCCG TCTCTACTAA AAATACAAAA
93421 TAATTAGCTG GGCGTGATGG TGGGCGCCTG TAGTCCCAGC TACTCGGGAG GCTGAGGCAG
93481 GAGAATGGCG TGAACGCGGG AGGCGGAGCT TGCAGTGAGC CGAGATCGCG CCACGGCACT
93541 CCAGCCTGGG TGACAGAGCG AGACTCCGTC TCAAAAAAAA AAAAAAATAA AAAATTAAAA
93601 AAATATGAAG TTTTGAAGCA GAAATTATTT TGTCGTATGT TCTTTCATAA ATTTTTTGCC
93661 TGCTGTCCTT CTTCTTTTGT TACAGAACTC CAACACTTAC CCAAAGGTAG CTGTTGGGTC
93721 AGGGTTTCTG TACTATAGTC CCTTCTGTGG TGGCCAGAAA TATGTTACAG GAAAGAGGTC
93781 CCCATCCAGA CCCCAAGAGA GGGTCTTGG ATCCCGCGCA AGAAAGAGTT CAGGGTGAGT
93841 CCGCAGTGCA AAGTAAATGC AAGTTTACTA AGAAAGTAAA GTGGTGAAAC GACAACACT
93901 CCATAGACAG AGCAGGACAT TCCCGAAAGT AAGAGGAGGA AGGCATCCAC CCTAGGTACA

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93961 ATACTTGAT ATATGGGGAG ATGTGCTCTG CTACAAGTTT GTGATAAAGG ATTAATTTTC
94021 TTAGTTACTA TATTTTGCAA GAATCAACAT TATTATCTTT AAACAAAATT AAGAATGCCT
94081 TTGTTCTCCA GATATAGGGA TATCTGGACA CTCCTAAGTC TGAGTCTGTT TAGTAAACAT
94141 TATTTATTTG TTCCCTTAAC CGTAAACATC TAGAAGCTAG GAATGACTGA CTTTCTGGGA
94201 ATGCAGCCCA GAAAGTCTCA GCCTCATTTT CCTAGCCCTC ACTCAAAATG GAGTTACTCT
94261 GGTTCAGTA ACTCTGACAC TTTTCTTCTC TTTTCTTCTT CTTTCTTCTT TCCTTTATTT
94321 TTTATTTTTT ATTTTGAAA TAAGAAATCA AGAATACTTG ATGTTTCATC TAAAACAATA
94381 CCCATAATTG ATAAGCCAAA ACAAACCT AGGTCTTCTA ACTCAAACT AGGATGTTTT
94441 GCTGTCTCTG CTGATACTCG GCTGATCGTT AATAGGTAAT TAACAAACAA GCCTTGCTAT
94501 GTCCCCCTCA GTTTATTACC ATTAGATCAT ATGCCTACTG TCAATCATAT TAATCCACAA
94561 CTATGCATTT CACAAAACCT GCCATAAAAA TTCACAGGTT TCCCGCTTCC CTCGAGTTTT
94621 CATTTCCGAA GGGTCCCATG TAATATAAAA CTTATATTAA ATACATTTGT ATGCTTTTCT
94681 CTTGCTAATC TTTTTTTTTG TTTTTTGAGA CTGAGCCTTG CTCTGTCACC CAGGCTGGAG
94741 TGCAATGGCG CGATCTCGGC TCACTGCAAC CTCGCTTCC CAGGTTCAAG CGATTCTACT
94801 GCCTCGCCCT CCGAGTAGC TGGGACCACA GATACGTGCC ACCATGCCCC GCTAATTTTT
94861 GTATTTTTAG TAGAGACAGG GTTTCACCGT GTTGCCAGG ATGTTCTCAA TCTCCTTACC
94921 TCGTGATCCG CCCGCTCGT CCTGCCAAG TGCTCGGATT ACAGACGTGA GCCACTGCAC
94981 CCGACCAATC TGTCTTTTTG TAGAGGGGCC TCAAGCATGA ACTTACTGAT GGGTGAGAAA
95041 AACAGAATTT TCTTTTCCCC TACAATATAA ACATTAATTG TAATGTTATC ATTCAGGACA
95101 TTTTGGTGAC CAATCTTACA GAAATTTTAT CTTGTGCAAG TCTATGCAA CCAATATGTA
95161 AATCTTCTAT AAGTGAGATT GTATTTCACT TTTCTAGTAT CCTTTTAAAT TAATAAAGA
95221 GATTCTAATG ATTATTTTCA TTACTGCATT TCATTGTAGG GAAGTAGATA ATTGCCCTTT
95281 ATTCACGTAC CTTGCTTTT TAAAAATTTA AACCATGTTA CCATGAAAAT GCTTTTCAGT
95341 ATTTCTCTAC ACACAAGATT GCTGTAAGGG CAAAAATAGA GATAGGAATC ATGCATCCAT
95401 TGATATACAT ATTTTGATT TTAATACATG TTACCAAGTT GCCTCCTGAA GGTCTGTTTA
95461 CACTCTCACC AACAGGGTGT TTTTCTCTGA CTTCCACAAA TGCTCTGAA CAGTGGGTGT
95521 GTTAGTCTGT TCAAATTGCC GACATGAACA ATTAAATCTC ATTGTTGTTT TTATTTTAA
95581 GACAATTATT GTTTGAGACT GCACATTTTG ATAATAACAT TTCTTCTATT ATGGTTTGAT
95641 TACTCATGAT TCTTGCCCAT TTTCTTTTGG GATGTTGCCT TATGTACATT ATTTTAAATA
95701 GATAGCTCCA TGTATTAAAA GATTATTAAG TTTGAGGGCT TATGATATGT CAGTTACATT
95761 TCTAAGATT TTTTTTTTTT TTTTTTGAGA CGGAGTTTCA CACTTGTTGC CCAGGCTGGA
95821 GTGCAATGGT GCGATCTCGG CTCACCGCAA CCTCCGCTC CAGGGTTCAA GCAATCTCTC
95881 TGCCTCAGCC TCCCCAGTAA TTGGGACTAC TGGCAAGCGC CACCACGCTT GGCTAATTTT
95941 GTATTTTAT TAGAGATGAG GTTCTCCAT GTTGGTCAGA CTGGTCTCGA ACTGCCGACC
96001 TTGGCTTAAA AATCTACATT CTTTTTTTAA TTATAAACT ACCACATCCC CCAAAACAT
96061 TACTAAGGAA TTGAGGCTGC AGTTTAAAG GCTGATATT AGGATCTATC TCCGGAGAAG
96121 TGAGACCTGG TAATATAAGC ATTTTCAAAA TGAACTTTGG GGCCAGGTGA GGTGTGTCAT
96181 GCCTGTAATC CCAGCACTTT GGGAGACCTA GTCAGGCAGA TCACTTGAGC TCACAATTCTG
96241 AGACCAGCCT GAGCAACATG GCGAAATCCA GTCTCTACAA AAAATTAGCA GGGCGTGGTG
96301 GCATATGCCT ATAGTTCCAG CTACTATAGA GGCTGAGGTG GGAGGATTAC TTGAGCCCGG
96361 GAGGCAGAGG TTGCAGCAAG CCAAGATCGC GCCGCCACAG CCTGAGCGAC AGAATGAGAT
96421 ATGCACCCAC GCCCTAAAAA AAAGCATGAC TCATTAATAA AAAAAAATT AGCCGGTCCG
96481 GGTGGCTCAC GCCTGTAATC CCAGCACTTT GGGAGGCCGA GCGGGGCGGA TCACGAGGTC
96541 AGGAGATGGA GACCATCCTG CTTAACACGA TGAACCCCG TCTCTACTAA AAATACAAAA
96601 TAATTAGCTG GCGGTGATGG TGGGCGCCTG TAGTCCCAGC TACTCGGGAG GCTGAGGCAG
96661 GAGAATGGCG TGAACGCGGG AGGCGGAGCT TGCACTGAGC CGAGATCGCG CCACGGCACT
96721 CCAGCCTGGG TGACAGAGCG AGACTCCGTC TCAAAAAA AAAAAAATA AAAATTAAAA
96781 AAATATGAAG TTTTGAAGCA GAAATTATTT TGTCGTATGT TCTTCTATAA ATTTTGTGCC
96841 TGCCTGCCCT CTTCTTTTGT TACAGAATCT CAACACTTAC CCAAAGGTAG CTGTTGGGTC
96901 AGGGTTTCTG TACTATAGTC CTTCTGTGG TGGCCAGAAA TATGTTACAG GAAAGAGGTC
96961 CCCATCCAGA CCCCAGAGA GGGTCTTTGG ATCCCGCGCA AGAAAGAGTT CAGGGTGAGT
97021 CCGCAGTGCA AAGTAAATGC AAGTTTACTA AGAAAGTAAA GTGGTGAAAC GACAACACT
97081 CCATAGACAG AGCAGGACAT TCCCGAAAGT AAGAGGAGGA AGGCATCCAC CCTAGGTACA
97141 ATACTTGAT ATATGGGGAG ATGTGCTCTG CTACAAGTTT GTGATAAAGG ATTAATTTTC

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97201 TTAGTTACTA TATTTTGCAA GAATCAACAT TATTATCTTT AAACAAAATT AAGAATGCCT
97261 TTGTTCTCCA GATATAGGGA TATCTGGACA CTCCTAAGTC TGAGTCTGTT TAGTAAACAT
97321 TATTTATTTG TTCCCTTAAC CGTAAACATC TAGAAGCTAG GAATGACTGA CTTTCTGGGA
97381 ATGCAGCCCA GAAAGTCTCA GCCTCATTTT CCTAGCCCTC ACTCAAAATG GAGTTACTCT
97441 GGTTC AAGTA ACTCTGACAC TTTTCTTCTC TTTTTTCTT CTTTTTCTT TCCTTTATTT
97501 TTTATTTTTT ATTTTGTAAA TAAGAAATCA AGAATACTTG ATGTTTCATC TAAAACAATA
97561 CCCATAATTG ATAAGCCAAA ACAAAAACCT AGGTCTTCTA ACTCAAAAT AGGATGTTTT
97621 GCTGTCTCTG CTGATACTCG GCTGATCGTT AATAGGTAAT TAACAAACAA GCCTTGCTAT
97681 GTCCCCCTCA GTTTATTACC ATTAGATCAT ATGCCTACTG TCAATCATAT TAATCCACAA
97741 CTATGCATTT CACAAAACCT GCCATAAAAA TTCACAGGTT TCCCGCTTCC CTCGAGTTTT
97801 CATTTCCGAA GGGTCCCATG TAATATAAAA CTTATATTAA ATACATTTGT ATGCTTTTCT
97861 CTTGCTAATC TTTTTTTTTG TTTTTTGAGA CTGAGCCTTG CTCTGTCACC CAGGCTGGAG
97921 TGCAATGGCG CGATCTCGGC TCACTGCAAC CTCCGCTTCC CAGGTTCAAG CGATTCTACT
97981 GCCTCGCCCT CCCGAGTAGC TGGGACCACA GATACGTGCC ACCATGCCCC GCTAATTTTT
98041 GTATTTTTAG TAGAGACAGG GTTTCACCGT GTTGGCCAGG ATGTTCTCAA TCTCCTTACC
98101 TCGTGATCCG CCCGCTCGT CCTGCCAAG TGCTCGGATT ACAGACGTGA GCCACTGCAC
98161 CCGACCAATC TGTCTTTTTG TAGAGGGGCC TCAAGCATGA ACTTACTGAT GGGTGAGAAA
98221 AACAGAATTT TCTTTTCCCC TACAATATAA ACATTAATTG TAATGTTATC ATTCAGGACA
98281 TTTTGGTGAC CAATCTTACA GAAATTTTAT CTTGTGCAAG TCTATGCAA CCAATATGTA
98341 AATCTTCTAT AAGTGAGATT GTATTTCACT TTTCTAGTAT CCTTTTAAAT TAATAAAAGA
98401 GATTCTAATG ATTATTTTCA TTAGTGCATT TCATTGTAGG GAAGTAGATA ATTGCCCTTT
98461 ATTCACTGAC CTTGCTTTTT TAAAAATTTA AACCATGTTA CCATGAAAAT GCTTTTCAGT
98521 ATTTCTCTAC ACACAAGATT GCTGTAAGGG CAAAAATAGA GATAGGAATC ATGCATCCAT
98581 TGATATACAT ATTTTGATTT TTAATACATG TTACCAAGTT GCCTCCTGAA GGTCTGTTTA
98641 CACTCTCACC AACAGGGTGT TTTTCTCTGA CTTCCACAAA TGCTCTTGAA CAGTGGGTGT
98701 GTTAGTCTGT TCAAATTGCC GACATGAACA ATTAAATCTC ATTGTTGTTT TTATTTTAA
98761 GACAATTATT GTTTGAGACT GCACATTTTG ATAATAACAT TTCTTCTATT ATGGTTTGAT
98821 TACTCATGAT TCTTGCCCAT TTTCTTTTGG GATGTTGCCT TATGTACATT ATTTTAAATA
98881 GATAGCTCCA TGTATTAAAA GATTATTAAG TTTGAGGGCT TATGATATGT CAGTTACATT
98941 TCTAAGATTT TTTTTTTTTT TTTTTTGAGA CGGAGTTTCA CACTTGTTGC CCAGGCTGGA
99001 GTGCAATGGT GCGATCTCGG CTCACCGCAA CCTCCGCTC CAGGGTTCAA GCAATTCTCC
99061 TGCCTCAGCC TCCCCAGTAA TTGGGACTAC TGGCAAGCGC CACCACGCCT GGCTAATTTT
99121 GTATTTTTAT TAGAGATGAG GTTCTCTCAT GTTGGTCAGA CTGGTCTCGA ACTGCCGACC
99181 TCAGGTGATC CACCCGCTC GGCCTCCCAA AGTGCTGGGA TTACAGGTAT GAGCCACTGG
99241 GCCCGGCCAC ATTTCTAAAT TCTTTATAAG TATAAATTCA TTCAATCTTC ACCAAAACCTC
99301 AATGAAGTGT GAGTACTATT ATTATCATTG TTTTACAGAT CAAAACAAGT AATACAGTCA
99361 CTTACTGAGT TCTATACACC TGGTAATTTT TTTGTTTCGT TGTCTATCA ATTATTGGGG
99421 AAGGGGTGTT GAAATCTCTA CCTTTAAATC ATGTATGTGT CTATTTCTCC TTTGCGTTCT
99481 ATCAGGTTTT GCTACACATA TTTTGCAGTT CTGTTATTTG GTGCATATAC ATTTAGAATT
99541 GCTTGTTTTT CGTATTGGAT TGACCCTGTT ATCATTATGT AATATCCCTG TCTGTTCTTA
99601 GTAATTTTCT TTGCTCTGAA ATATACTTAT CTGATATATC ATCCAAAAGA CCACCAGGAT
99661 GGCTAAAGAG TAGAAAGGAG AGATTTACTG GCAATACTAA TTTGCAAGCC AGGAAGAGAT
99721 GGTCCCAGAA CCTGCCAAA TTAATCTCTC TTTGGGGAGA AGGAGCAGGT TGGTTATTTT
99781 TATGCCTCAT AGGCTATATA TTACACAATA GAGTCATACA TATTTAGCAC GTTTGGGGGG
99841 ACAGCTATAT ATATTATGAG GGGTGCCAAG TGCATTCACA ATGGATAAAC ACGTGTAATA
99901 TACCTCCCAT GTTCACTTCG AGGTTAAATT TTTGTTAAAA TGAGGTAGAA TTTAGGTCTT
99961 TACATCACAA GGTGAACTAT AGGAACAAAG TTTACGTGCT GCCTCTAGCA GCTGGCTGAA
100021 AATGGCTTAA GGTCTACAAT TACGTGTAAG AATAGAATGT GTGTCAAGGC GGTCTCTGTT
100081 CCAATCAGAG TTGTAGTGGA CTGGACTGTA AATCAGAGTT AGGAGGGCTT CTGATAGCTC
100141 CTATAGTTAA GGAATTTAGC AAGTGTGAGT TTTTGGTAG TCTTTGGAAT TTAGGAATTT
100201 GCCATGCCAG CCAAGCCATG AATGCTCTAC CAGTAGGTAA CTTTGTGTTG TTAATCTTAG
100261 AGTCTGTCTT AGTTGGTATA GGGGCATCTA TTTTGGTCTT TCAGATCCCA GATATTATTA
100321 ATACAGATAC TCTTGCAGTT TTTGGCTGAT GTTTATATGG CTTATCTTTT TTGCAGCCTT
100381 TAATTTCAAC CTGCGTTATG TTTATATTTG AAGTGAGATT CTTGCAGACA GTGTACAGTT

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100441 GTTGTTTTTT TTTTTTTGA GATGGAATTT CACTCTTGTT GTCCAGGCTG GGGTGCAGTG
100501 GCACAGTCTC AGCTCACTGC AACCTCCGCC TCCTGGGTTT AAGGGATTCT CCTGCCTCAG
100561 CCTCTTGAGC AGCTGGGATT GCAGCCATGC GCCACCACAC CCGGCTAATT TTTGTATTTT
100621 TAGTAGAGAC AGGATTCACC ATGTTGCCCA GGCTGGTCTC GAACTCCTGA CCTCAAGTGA
100681 TCCGCCAGCC TCGGCTACC AAAGTGCTGG GATTACAGGT GTGAGACCTC GCGCCCAGCC
100741 AAAGTGTGTT TTTATGGGTG TATTTATACC ACACACATTT AATGCAATTA TTGATATCTT
100801 AGGGCTTAAG TTCATGAAGG GTAGTGTGGG AACCATAGTC TCTTGGCCCA CTAAATGTTT
100861 GCCAGAAATC ACTGACAAGG CAGATTGATT AATAGGTGAA AAGGCATTTT ACCTATTGTT
100921 TAACGTGTCT ATGTGGGAGC ATTCAGAATT AATTACCTAA CTTCCTAATG AGTTATAGAT
100981 GCTTATATAC CATTTTTAGA TCACAGAAAG AATTGGGGCT TAGATTCTGG TAAAACAGGT
101041 TATGGGAGGC AAAAGAGGTT TGGCTTGCAA AGGTGGCCTT GTTAGGTAGG TGAAGCCTCC
101101 CTCAGAAAGA ACAGATGGTA AATGTTTCTT TTATGATTTT TAAGTGTCTAG ACTCTCAGTC
101161 TCTCCTGGAT CTGGGGAAAG GTATAGAAAG GTGAGGAGGC ATGGCTGCAT TAATGGAGAT
101221 TCTCTACAGA TGTAAATTT TTCCCATTTA AGGCAGCTTT GCAAGCCCAT TTCTGCCTGC
101281 TGGCCAAGCA GCAGCCATTT CAAAGAAATA TATTTTGGGG TAAAATATTT
101341 TGATTTCTCT TAGACTGGTG GCCTTATAAG AAAAGGAAGA GACACCTGAG CTGACACACA
101401 TACCCTTGCT CTCTCAACAT GTTATGATGC AGTAAGAAGG CCCTCACCAG ATACTAATTC
101461 CATGCCCTTA GCTTCCAGG TTCTAGAACA GTAGGAAATA AATTTCTTTT CTTTAAAGT
101521 TAGCCAGTCT GTGGTATTCT GTTATAGTAT CACAAAATGG ACTAAGTAAC TATATTATGA
101581 TCATCTTACA TGACTGATCC CTCCTACATC ATACACATAC ACAGGCCACA TTTGGAACAT
101641 TGTTAGAGGT TCCTCTACCC AGTACAAATG TACTACAAAT TATATATGTA TTTTAAATT
101701 TTTGAGTATC TTCAATAGTA TATTTTCGTT AACTTTTGTA GTCAAAATGT CATTATAACA
101761 TGTATTCAAT ATGCATAATT ATTAGTCAGA TGTTTTACAT TCTTTCTTCA TACTAAGTGA
101821 TATGGTTTGG ATATTTGTCC CCTCTAAATC TCATGTTGAA ATGTAATCTC CAATGTTGGA
101881 AGTGAAGCCT GGTGAAAGGT TTTTGGATCG TGAGGGTGAA CCCCTCATGA AGCGCACTCT
101941 TCAGGGTAAT CAATGGGTTT TCACTTTGAG TTCACAAGAG ATCTGGTTCT TTAAGAGAT
102001 GTGACACCTC CCCCATCTCT CTCGCTCAGC TCTCACCATA TGATATGCCT ACTCCCTCTT
102061 CACCTTCCAC CATGATTGGA AGTTTCTCTGA GGACTTGCCA GTAGCAGATG CCTGCACCAC
102121 ACCTCCTGTA CAGCCTGCAC AACCGTGAGC CAAAAAAAT TACTTTTCTT TATAAATTAG
102181 TCAGTTTCAG GGATTCCCTT ATAGTAATGC AAGAACGAAC TAACACACTA AGTCTATTTT
102241 ATATTTACAG AATAGCTCAA TCTGAAGTAC CCTTTTCAA CTTCACAGTA GCTACTTGTA
102301 GCTAGTGGC ACTGATTGG AGCGTGTTCA AGGGTGAATT GTATTATGCA ATTAACAGAT
102361 TTTTTTTATT GTTTTCGCAA ACCACGAGC ATAGATTGTC TTACTTTCTC TGCTCCTGGT
102421 GTTGGAGTTG TTATTGGGAA ACAACTTATT TTCTCTTAT ATTTATATGG AATAAATAAC
102481 CCCCAATATT TCCCTCCCCA ATATCTGCCT TTTGTATGTT TTTTGAAGG AAGTGCTTAG
102541 AATTTACTGT TTTGAAGCA CTTACTGAAA GGATTGCCAT CAAGTTGTTT TGCTAATAGT
102601 ACATGCCAGG CGCTTGTTGG TTTGCTTAAT TCAAGGTAAC TTGGATGAGA AGAAGAGTTT
102661 TTCTCATCCA TGGCTCAGTG GAGTATAGAT TACTGATATT GTGACTGGAT GTACTCCTGC
102721 TTTCTAGTCT GAGTTTTTGA AGCTACCCTT AATCTTGGTT TCAATTTTAT CTAGCCCTGT
102781 ACATATCCAA GGCTCTTTCC AAAATGGTCT ACGATTTGTT TAGGAAGTTA GAATAGCTGT
102841 ACTTTCTGAA CCACGGTTCC TGACATTTTC TGGACTTCAA ACACATCCAG CATTTTATCG
102901 AAGTATTTAT CCTTCCTACT TGGCTGGCTT CTTCTTGCC TTCAGGCTG AATTCAAATG
102961 ACATTCTCCT GATGAAACTT TCCATCCTTA TTTCTATTCT TTTTCTTAT CCCCTTTCTT
103021 TATTTTTCTC CACAGCACTC ATCACTTATC TCTACATTTT CATTATGTAT TTACCTTATT
103081 GTGCACCTCC CACTACAAGA CAAGTAGCAC CGTAAGGAAA CAGGTTGTCT GCTTTTTTAC
103141 TGCTATGCTC CCTGCACCTA GAACACTCTC TGGCACTTAG CAGGTTTTTCA GTAAATATAT
103201 GCTGAACATA TAATGCTGGA TATACATCTC CCTCATGAAC TCTCTAAATC CTTCTAATTT
103261 ACATTGATCA ATCTTCTTTT CCATGTGCTT TTGTATGATT TATTGCTCAA AATCTTTATT
103321 TTGTATGCAG AACGTGCACT GCTATTTAAT CTTCTATGAT GTAAGTCTC CTTCTCTGTA
103381 GTATAATCTC TTCAGGGCAC TATCTGAGAT AACTTTTTAA CATCTCCATC ATGAATCTTG
103441 TACCTTTTCA AAGAAAATGA GCCAGTGATT ACTGATGTTT ACGGCTATTG TTGAGGGTGA
103501 AGATCATTAT AATTTTGAAG AGGGAAGTTG AATATTGTGA AGGGAAGATG AACACTAGAG
103561 TCAGAAAGACT TGGGAGAAGG CAAAAACAA ACTAAAAATG AGCACTTTTA GTCTCCTGAC
103621 AGTTTCTCTG AATCAAATCC ATAGTTCTGT GACAGCGTTG GCTTAGAAGC AGATTTTTTT

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103681 TTTTTTTTTT TTGAAATGGA GTTTCGCTCT TCCCCAGGCT GGAGTGCAGT GGCACGATCT
103741 CGGCTCACTG CAACCTCTGT CTCCAGGGTT CAAGCGATTG TCCTGCTTCA GCCTATGGAG
103801 TAGCTGGGAT TACAGGCTCC CACAACCACG CCCAGCTAAT TTTTGTATT TTTAGTGAAG
103861 ACTGGGGTTT CACCATGTTG GCCAGGCTGG TTACGAACTC CTGTTCTCAA GTGATCTGCC
103921 CGCCTTGGCC TCCCAAAGTG TTGGGATTAC AGGCATCAGC CACCGTGCCC AGCCAGGAGC
103981 AGATTTTTTT ACACCTCATGT TTCTTTTCC TTCTGTCATC CTGTTTCAGT ATAAGCAGAC
104041 CACAGATAGA AGTAGTAGAT ACCTCAGAAA TTCCTGGAAT AATTAATCCA CGTTCATCTG
104101 TACTCCATCT GCTCCTATCT CATGGAATAT AAAAGGAAAA ACACCAAGAT TTCCCTAGGC
104161 AATCTGTCTT GATTTTAGGT TCCTCAACAG GAGAGCCAGA CAATGGCTGT AATAATATTG
104221 TCCCGGCCAA GGAAAAACTT CCCCTTTGCC CTCCAAGGT TTATGAAAAA TTAAGTGGCAA
104281 AACACAGATT AACTGGAGAA AAGGCATATA TATTTATTTT ATCACAATTT TACAGGAGAT
104341 TTTAGAAATTA AGACTGAAAG ATACAGGGGA AATTGCCCAT TTTTATGCTT AGGTTCAACA
104401 AGATAACAG CTGTATAGGG TACGATCTAA TGCTAACAGA CTGAGTGGGG AAGCCCCGCA
104461 AGGCTTGTCT GTCAAGATTG AATGGGGGGT CTTATGACCT ACAGGCAAA AAGGTAGGTT
104521 AGGACAAGAC TCTCTTTTAG AATGGGGGGT CTTATGACCT ACAGGCAAA AAGGTAGGTT
104581 AGAGTAATAT TTTTAGGTTT TATGGCTGGT TCTAGGGAAA AGGAGTTCTG GTTTGTATGG
104641 CCTACCTTGA GGAGGAATTC TGGTTTCTAT GGCTAGACTT TGGGGAGAAAT GGGACTTACA
104701 GACAGGAAGG CAGAAGGTGG TCAGTGAAC ACTTTTATAA TCATAATCCC ATTTTGAGTA
104761 TTCTGTGTT ATGGAATGTT TGTTCTCTCA TTTCTGAAA GATTCCAGAG ACTCCTCATT
104821 CAGTGTGTG AAAAAATTCA GGAATGCAA CTCAAAAATG TGCCACTTTG TTACGCTGAT
104881 TTCTTTGAAC TGAGGGCACC TAGGAAACAG TAAATTCAAG GAAGGGCTTT CGCTGAACCTC
104941 TAATCAAAAA TTTGAAAATT AAAAAAATG TCAAAAAGGA ATTTAGTTGT TAAGATTAC
105001 TTCCCTGGGG AATCTCATCA ACCAGAGAAG ATTAAGTGA TCACAGGAGA GGAGACTGGT
105061 GGTTAACACC ATCTAAACAG ACTTTGTAC AGCTGTACAC TATCTTTGA AACACCCATT
105121 TATTTTTCTC CAAAATCATA TACTCTCCCC TAAGTTGCCT ACATCCCCCT TCTTTCTCCC
105181 TTATGAATCA AGAGAGCTTA TAAGCTTCTA CAGTTCACTG GGATTGGGG TATTCGCTTT
105241 TCTTCCCTCC CACTCCCCCT CCCCTTTTTT TGTCTTTGAG ACACAGTCTT CTGGCTCTGT
105301 CGCCACGCT GGAGTGTGGT GGCTCTATGT GAACTCACTG CAACCTCCTC CTCTCGGGTT
105361 CAAGCGATCC TCCACCTCA GCTTCTCGAG TAAGTGAAC TACAGGCGTG CACTACCAAG
105421 CCCGGCTTTT TTTTTTCTT TTTCTCCCC GTTTCTTTT TGGTTATTTT ACTGGAGACA
105481 AAGTTTCTCC ATGTTGTCCA CGCTGGTCTC GAACGCCTGA CCCGCCGTCC TCGGCCTCCC
105541 AAAGTGTGG TATTACGGGC ATGAGCCACT GCGCCGATT TGAAGGACCT CTTAAATATC
105601 TATTTAGAAA TTGGTCGGAG TCCACTCCTT TCCAAAAACA TGAGTCAAA TCCGGGAAAA
105661 GCACGAGCGG CTGAAAGTCA AAATAACCAG AACAAAACCT CCACTCATGC TTAATAAAGG
105721 TATTTTGACA AAATCCTAAT TCGGCCAATT ATTATTAGTA TTCAAGTCGA AGGCTCGTCA
105781 AGCCAGACTG GGGATTGGGT CAAACATAAA CCTTACACCA GACGGAAGGA TTACATGCAA
105841 ATGAAGGATG CAGATTCTGA TTTCCATTG GGTATTTGAC ATTAGCCAAT GGGAGAATTC
105901 CTCACAGCCT ACCTCCAGTC AGTATAAATA CTCTCTGCC TTGCGTTCTA ATGTAGTTTC
105961 ATTACATTTT CTTGTGGCGA TTTTCCCTTC TTATCAGAAG TAGTTATGTC TGGTCGCGGC
106021 AAACAAGGCG GTAAAGCTCG CGCCAAGGCT AAGACTCGGT CTTCTCGTGC AGGTTTGCG
106081 TTTCTGTGG GCCGAGTGCA CCGCTGCTC CGCAAAGGCA ACTACTCCGA GCGCGTGGG
106141 GCTGGCGCGC CGGTGTATCT CGCGGCGGTG CTTGAGTACC TGACCGCCGA GATCCTGGAG
106201 CTGGCGGGCA ATGCGGCCCG CGACAACAAG AAGACCCGCA TCATCCCGCG CCACCTGCAA
106261 TTGGCCATCC GCAATGACGA GGAGCTTAAT AAACCTTTTG GGCCTGTGAC CATCGCGCAG
106321 GGTGGCGTTT TGCCTAATAT TCAGGCGGTG CTGCTGCCTA AGAAAAGTGA GAGCCATCAT
106381 AAGGCCAAGG GAAAGTGAAG AGTTAACGCT TCATGCACTG CTGTTTTTCT GTGAGCAGAC
106441 AAAATCAGCC TAACAGCAA GGCTCTTTTC AGAGCCACCT ACGACTTCCA TTAAATGAGC
106501 TGTTGTGCTT TGGATTATGC CGCCCATAAA GATGTTTTTG AGGTGTTTTT AATGGCTTTG
106561 AGTGTGGCAC TTTTAGTAAT TTGTCCTGCA GAAATTAGAT CCATAGAAAC CTCAGGAATT
106621 CTAGGTATGT GGGAGAAGTG CCATGCAGCA CAAAACATGT TTACAGGGGT GATTGCGGTT
106681 AAGTTTCACA CACAGCAGTT ACTACATTTT AGAGGAAGGA AATTATACCC ATGAGTGCAT
106741 TCCTAACTAT CTTGAATGGA AGTGTTAAAA CCCGCATGCC CCACACAAGT TTGAATATGT
106801 CATACCATT GCTGTAGCAA TTAATGGCAT ACACAATTGA GAGCACACAC ATTACCACTG
106861 AACATTTGAG TATGTATTT CCAAATGAG CTTTTTTCCA GTTTGGGGAT GTTTTGCTTT

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106921 GTTTTGGGGT GGAGTCTCCC TCTCGCCCAA GCTGGAGTGC AGCGGCGTGA TAACAGCTCA
106981 CTGTAACCTC GAACTCGGGC TCAAGCGATC CTCTTGACAG CCTTCTGAGT AGCTGGGATT
107041 ACAGGCGAGA GCCGCCACGC CCGGCTAAGA GCATTTTCTT AATTGCCAC ACTTCTTATG
107101 CGACACCCAG AAAAATACAA TTTTAAATAA AGCGCATATG CAAATTTCCC TAATCGTCTC
107161 CAATATTCTC TGATTCTTTT TTTATATTTT AACTAGAAAC AATTGGAGGT TTCCGCGTTG
107221 CTTTGTGTGG TTGTAAATTT TAAGACTTCA GGAAACTTTT CCAGTACAAG ACTTGTCCAC
107281 AGTGGATATA GCAGCTAAGG GGTAAACAAA ATGACGTCAG AGTAGCTACG GTAATGGGCA
107341 GGAGCCTCTC TTAATCTGCA ACCAGGCACA GAGATGGACC AATCCAAGAA GGGCGCGGGG
107401 ATTTTGAAT TTTCTGGGT CCAATAGTTG GTGGTCTGAC TCTATAAAG AAGAGTAGCT
107461 CTTTCTTTTC CTCCACAGAC GTCTCTGCAG GCAAGCTTTT CTGTGGTTTT GCCATGGCTC
107521 GTACTAAACA GACAGCTCGG AAATCCACCG GCGGTAAAGC GCCACGCAAG CAGCTGGCTA
107581 CCAAGGCTGC TCGCAAGAGC GCGCCGGCTA CCGGCGGCGT GAAAAAGCCT CACCGTTACC
107641 GCCCGGGCAC TGTGGCTCTG CGCGAGATCC GCCCTACCA AAAGTCGACC GAGTTGCTGA
107701 TTCGGAAGCT GCCGTTCAG CGCCTGGTGC GAGAAATCGC CCAAGACTTC AAGACCGATC
107761 TTCGTTTCCA GAGCTCTGCG GTGATGGCGC TGCAGGAGGC TTGTGAGGCC TACTTGGTAG
107821 GGCTCTTTGA GGACACAAAC CTTTGCGCCA TCCATGCTAA GCGAGTGACT ATTATGCCCA
107881 AAGACATCCA GCTCGCTCGC CGCATTCGCG GAGAAAGAGC GTAAATGTAA AGTTACTTTT
107941 TCATCAGTCT TAAAACCCAA AGGCTCTTTT CAGAGCCACC CACTTATTCC AACGAAAAGTA
108001 GCTGTGATAA TTTTTGTG TCTTAACAGA ACAAATTTCT AAGGACCCCC CCGGAAAAGCA
108061 TTAGACTATG GTCTTAAAGT TGATTAACAG AAATAACGGT TTGGTCAGTC TTGCAGTGTA
108121 GGTATTTTCT GACCTTATTA AGGTGCTATT TGGAGAGAAG CTGTGTAAGT CCACTATCAT
108181 TCAGGCCTCT AGCTTGCTAT GATTAGCATT TGTTTAAACA ACTTTGTAAG AGTAAGGGAA
108241 AAATCTGGTA AGTAGTTAAC TGGCGCTTAC TAGGCATTTT TGCAAAGCTT TGAAAAGATT
108301 AGAAAATTGT GTCTTGCGAG TTCCAGTGTC TTCTCAAAA TGCTTAGGAA GATTTTCTCA
108361 GCTCAATACA TAGTCCCCTA GGTTTTCTCA TATATTATAT ATATATATAT ATATATATAT
108421 ATATATATAT ATATACTGTT AAATCTAATT GGCTGTTAAC ATTAACCTGA AATTTATTCT
108481 GGTGCAAAAT GTGAGGCAGG GATCTAATG GCTCTCAATT TATCCATAGC TAGCTACCCA
108541 CTTTAAATCT GTCAGTCTGT CGACCAAGCA TAATTTAATC CCTTATATAT GAATTTTAT
108601 ATGTGTGGCT TTGCTTGTA ATAGTCTATC TGGTTGCATT GCTTTGTCTC CTCTAGGACT
108661 ATGCACCATG ACATGCCACA TTCTTTTTTT CAGTACTTCT TGCCTGTAGT TATTAATAATC
108721 TAGAATTTAC AAGTTTAAAC CATTTCTTT CTGTTGATCT TGCTTTTCGG TTTTGGAGGT
108781 TGGGGATTGA GTACTGGAAG AAAATTTAGA GGGATGGGAA TACTGTACGC AAACAAAAGT
108841 AATATTTACT TTAATAATTT TATATTTTGT ATTTTTTTAT CATATAGCTT TTACATCACA
108901 TTTTACAGAC TAACTTTAGA ACAACCACAG AATGTCCAAC ATTAATACTA CTAATTTCAA
108961 AGACCTTGCC TCACATTCTT TTTTACAATA AATATTTTTT ACACCTAACA TTCTTTCTTG
109021 GCCTACATCT AGAATGTAAA CTGATGTACC ATACTAAAAT CGCTGACCA ACTGTCAACA
109081 ACAACAAATC ACACACACAA AAGATCAAT TTGAATTGCA TCGTTTACTT AAATTCATTT
109141 GTGTTCCAGC TTTTAATAAG GCAGTTTTTG GTTTATAAAG TAATATTTGC ATTTTAAAAA
109201 TTATGAAAAT GAATATGTCA GTTGTGTTTA TGATTCGTTT TTCTTGACTC TTATACAAGC
109261 GACTCTAAT GGCATAGACA TTTGTTATCC ACAGACAGTA TAGATATGTT AGAGATGCCA
109321 ATGGACTTGG TCTATGCCAA GGTGACTACT CACAAGCTCT GGGCCCAGCT GAAGGTCAAG
109381 TATTTTTTTT CCAGTTATAG ATGTGCTGGA TCTGATGTAT AGCGCTTGAC TTTTATATT
109441 TTCTTTATCT GTAGGAAACA AATGTGTTGG AGGTACTGGG TCTGACGAAT AGCATAAAG
109501 AATAAAGTTA CATTACTGTC TGAGGATCAG ATGGACAGGG GGTGGTAGCT CAGTCCAGCT
109561 ATTTTCCACT CCCTCACTTA CATTCTTTGC CCCCTCCTCA ACAGAACAAG GATTCTGCTG
109621 TAACTCTTCA TTGACAGTTG ATATTTAAAA ATTAACGAAT GGATGAAATT CTCATTTGTG
109681 AAAGAAAATT TATTGAGCAT TTTGTATTTG TGAGTAGTGC AAACATTTTA ATATTATATT
109741 AAGAATCTAT TGTTTTGTAT TAGAGGAGTA ATTAAGGAGA GATTGGAGAC AAAAAGGGGG
109801 TGTTGTTTGC AGAATATACC ATCCAAAAAT AGACCACTGT GGGATCAGGA TTCTTTTGAG
109861 CTAAAGGCAC TTCAAAAACA GCATTCAAGA AGGGAATTCT TCTAACTTT TCTTTCTGAA
109921 AACAGGAGAT AAAAGTTCCA ATGTGAAAAA TGCTCTGCTT GTACCAGGTG AAAAGACATA
109981 TTCTTCAGCC CAGAGGCATA GATGAGATAA TTCTGCACAA ACACAGCAGG GAGTCATAGC
110041 CGAGAGACTT CTATACACAA ACAAGACCTT TTAATAAAT CATATATTCC TTTAATCTCC
110101 TCATATGGTT TACTTTCCCA CAATTGCCTC TCTTTAACTT AATGTGAAAG CATTAGCTT

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110161 TTGCCATTTC TTTGGGGCTT CACTTTTTTA TGAGGGTTCT CCTGTCCCAT AAAATTTACA
110221 TTAAATACAT TTGTATGCTT TCATTCTGCT AATCTGTTTT ATGGCAAATG AATTATCAGG
110281 TCCAGCTGGA GACCCTAACA GAGTAGAGGT AAAATTTTGC CTCCTTACAA GATAGAGATT
110341 GTGTGCATTA AATGTTGTTT GTTCCCAGTT GTTCAGTTTG TCAGGCCTCT GAGCCGAAGC
110401 TAAGCCATCA TATCCCCTGT GAACTGCACG TATGCCTCTA GATGGCCTGA AGTAACTGAA
110461 GAAACACAAA AGAAGTGAAA ATGCCCTGTT CCTGCCTTAA CTGATGACAT TACCTTGTGA
110521 AATTCCTTCT CCTGGCTCAT CCTGACTCAA AAGCTCCCCC ACTGAGCACC TTGTGACCCC
110581 CACCCTGCCC AGCCAGAGAA CAACCCCTT TGACTGTAAT TTTCCACTAT CTACCCAAAT
110641 CTTATAAAAC GGACCCACCC CATCTCCCTT CGCTGACTCT TTTCCGACTC AGCCCGCCTG
110701 CACCAGGTA GAATAAACAG CCTTGTGTCT CACACAAACC CTGTTTGATG GTCTCTTCAC
110761 ACGGACGCGC CTGAAACAGT TTAACAGGGT TTTTCCTGCC CAGTCACAAC AAAGTGATGT
110821 TATGCTGCAG GCTGAAGTTT ACAGCTAATG CTGTTGAAGT CTAAAATCAG TTTTGGTTTG
110881 TTAGATTGG GTGAGATGGC TAAGATTCTC AGAGAAAGAA GTCAAGTTTG GGGTGCATTT
110941 TTCAGACTTA AAAATTTAGC AGTAGCCCTT GCAGTTTTTC CAATAGAAGT GATTTACGAA
111001 TGTTTTCAGG AAATTTAAAA CAACAGTGAG AAGCGTGAT GGAGAGTTGA ACTACACTCC
111061 AGACTTGGCT ATAGGAAAGC ACGAATGCTG CTATTGTATT GCACCTTGGA AAAGAGAACA
111121 AAGGAATATT TTCGACAAT TTTAACATGT CACATATGAA AAGCTAAACG GAATCTGTCA
111181 ACACCTTGTA CGTTATTACA GGCTGTGATT TTAACAAAAAC AATCCTTACT AATACATACA
111241 TAGTTGCTGC TAGCAATATA GTGTTGGGAG TAAAAAACACG AAAATGAGAG TTCAGGACAA
111301 TATCCCAACT CTGAGCAGAT TTTTAAAGT AGTAACATCT AAAATTAAC CATATTATGT
111361 AATATTTATT TCTTTCCAC AGTCTCTTCT CATGCCTCGT TCACATTAGC TAATTAAGAG
111421 TCCCTGAGT ATCATCATAA CCCGATTAC AGATGAAGGC ACGTTGCAA TGAGCTATCA
111481 CCCTCTTCTG AATGAGACAG TACAGTGTGA AGGATAGCAA AACTCCACTC CCATCTCTT
111541 AGGGCTCTGG CTGGACCAGC AAATTAATTT AATGTAAAT GGATTAACAG GAGAAAGGTA
111601 TATGCATTTA TTTAACACAG GTTTTACGTG ACACAGGTGC TCTCATAAGG TAATGAAAGC
111661 CCAAAAAAAG CAGTTAGCTA CTTATATAAT GAATTGGACA ATTAGTAAAA TGTAATAATG
111721 CGCTAAAGCA AAGGGATTTA GGCTAGAATA TATAACTGTG TAGAGAAGCG CCCAGCAAGG
111781 GCTAGTGCAA GGTGTGTACA GAATCTCTT GGCTCAGCC TCCTATCCTT GAGAAGAATG
111841 TTGCTTTTTT TAACTACAG TGAGAACATC TTTCATATGA GAATTTACC TACTGCTTCT
111901 AAGAAACAGG TCAGCTTTCA AGAAAACATA AGGCCAGAGT GATCTTTTCA CGCCTGCTCT
111961 TTTAAGTACC TTTGAATAGT CAATATGTCT TCAAGCACTT GAAAGACTTA AAAAGTTTAC
112021 CACTCCGGCA TATTAGTGAA AGCCCTTAAT ATAAGCCCTT ATTAATAATC TCAGTCGAGG
112081 GTATAAATC AGATTCAAAT AGTAGTGTCG TAAACGGGAG GGAAAACTA AAGGGATTAA
112141 AAAGTGAAAC TATTGTGTTT TCCTCGCAG TCCTTAGGTC ACTGCCCCCTC GAGGGGCGGA
112201 GCAAAAAGTG AGGCAGCAAC GCCTCCTTAT CCTCGCTCCC GCTTTCAGTT CTCAATAAGG
112261 TCCGATGTTT GTGTATAAAT GCTCGTGGCT TGCTTTCTTT TCGCGTACCT GGTTTTTGTT
112321 GTCAGCTGGT TAGACATGTC TGGTCGCGGC AAAGGCGGTA AAGGTTTGGG TAAGGGAGGT
112381 GCTAAGCGTC ACCGAAAAGT GCTGCGGGAT AACATCCAAG GCATCACCAG ACCGGCCATT
112441 CGGCGCCTTG CTAGGCGTGG TGGGGTTAAG CGAATTTCCG GTTTGATTTA TGAGGAGACT
112501 CGTGGCGTTC TCAAGGTGTT TCTGGAGAAC GTGATCCGGG ACGCCGTGAC CTACACGGAG
112561 CACGCCAAGC GCAAGACTGT CACTGCCATG GATGTGGTTT ACGCGCTCAA GCGTCAAGGA
112621 CGCACTCTGT ACGGCTTCGG CGGTAAATCT TTTCGTGAGT TTTCTTCCAA TGGCCCTTTT
112681 TAGGGCCGCC CACTCCCTCT CAGAAAGAGC TGTGATTGTA TTCTTCGGA TGGTAACATC
112741 TCAATGGCTT TACTCGGCTA TTCTGCCTAG TATGTAGAAC TATTATAAAC CAGTTGGGAG
112801 AGACCAGGTT GTTTGGTCTG AGTGGCTGCT AAAGCAGAAA TCAGCTAAGT AAACGAGGTC
112861 TCCGAGATAA GTGAGCTATA AACTTCAATG CTATAGTTTT GACATGTCAA GCAACTTAAC
112921 GTGCAGCGCG AGTCCGATAA ATGAGTAGCT CAGCTTTTTA GTTTTAAAAA CGAGTTGTGC
112981 GTTATTTGTA CGAGAGCCTA AGATGCTAGC TGCCTGGAAC TGAGTAGGTG GATTAAAATG
113041 GGTGTCAGGT CTGTTTTCCC AGGCGTATCT GACTTAACTG CAGCAAAAGC TGTACTTTTA
113101 GCTTCCCTGG TAACACCTGC CGTCTTAAAC CGCCCCCTGC CGGTAGCGCC AGAAGCCTTT
113161 ACTTCCATTT CTAGTTGAGC TTGGCTTCTT GCTGAGTGAC GTCACCTCCC CTTTCTGTGG
113221 AGTAGGACTG GCGGTTAAAG CTGCTTTGCT ATTTTCAGTC CTCAGGCTGG AGGCTCCCTT
113281 AAGCAGGCTG CCTACGCACT TCGTAAATTC CCACTTAGTA GACTAAGGGA GTCTGTTTTA
113341 TAAATAAGGA CTCAAATTTT TTCTGACTCC GAGGTCCGTG GCAGCAGCTA TAAGATGGAA

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113401  GCCCCCTCTG ATGTAAGATT CTCAGATGAC TTGCATCTTC ACTGTACCTG TCAACCCAAT
113461  AGTCTTCTAT TCCTGCCTTA AATTGTAAT TCCAAAACCTG ATTTAATTGT GAAAGTTTCA
113521  AACTGTACGA CCTAGGAAGT GTCAAAGTTA GGTGACCAGA TTTTLAGAAG TCAGCCAAAT
113581  ATTCAGCATC TTTGATTAG TAACAAATAT ATTGATGGCT ACTTCAGCAA AAAAAATCAA
113641  CTTTGTTCCT TGGTTACTTT GCTAACAAAGC TTCTCCTGAC AGGAGGATAT AGTGAATAGG
113701  CAGTTGAATA AGTGAGTTCG GGTGAGAGGT CTGAGCTGGA GATAAAAATG TGTGAGTCAT
113761  CAGCAGATAA ATAAATGCTG AGACCAGATG AGATGGCTAA AAACGTAAAC ATAATGTAGT
113821  GCAGCATTGT TTGTAATAGT AAATGAGTGG CAACTGTAAA GTTTTTCATCA GAAAGGACTA
113881  GAGTGATCTA TACATCCATA AAATAGAGTA TTTCTCTACA CAGCCCTACT AAAGAATGAG
113941  AAAGCTGTAC TCCACTACAT ACTCTGGTGT ACTCTGGCTC AGTTCCTTGA CTCCTCTTTT
114001  CTTGGCTAAC TCAACTGGCC TCACCACTTA CATGCTCTGT GCTCTGTCAA ATAGTTTGT
114061  CAACAGAACA CCACGGCCTA GCTGTAAGTG CCACGTAAAC TTCTAGCAAT GCCAAAGCCT
114121  GTGATAGTGG CAGCTTCGGG CTGTTTCTCA TTCCCGGGAT GCCTAACCCAC CTCTCCAAAT
114181  TCTATCAGTT TGCTTCCACC CACTTCAAGC TTCAGAACGA AACATAGAGC TTAAGAAATA
114241  TAGGCCCGGC AAGGTGGCTC ACGCCTGTAA TCCCGGCACT TTGGAAAGCT GAGCCTGGTG
114301  GATCACCTGG GGTACGGGGT TCGAGACCAG CCTGGCCAAT ATTGTGAAAC CCCGTCCTA
114361  CTAAAAAATA AAAAAATTA GCTGGGCATG GTTGCGGGCG ACTGTAATCC AAGCTACTCG
114421  GGAGGGTGAG ACAGGAGAAT AGCTTGAAC CCGGAGGCAG AAGTTGCAGT GAGTTGAGAT
114481  CGCGCTATTA CACTTAGGCC TGGGAGACAA GAGTGAACT GTGTCTCTAA ATAAGTGT
114541  GCAATTATAA ACCATCTCCC TGACCTTAAA TCTCTAGACT CATATACAAC TGCATATTTG
114601  ATGTATCTAA TTGAATAATG GGCATCTCGA ACTTGTCCAA AATATGTTTA TACGTAAACA
114661  CCAAGTCTGT TCTTCCTCTG ATATTGTCA TGTCAATCAA TAGAACTCCA TTCTTCAAGC
114721  AGCTTGGGCC AGGAATTGTG CAATATTGTT TGTCTGAGC TTCTTACAAC TTTCACCCAA
114781  TGCAGTCAGC TCTGTGAAA ATCAATCAGA ATACCTTTCA TTGTTTCTT TGCTGCTTCT
114841  CTAGGAGCAA GCTGCCATGG CGGTTTGTCT GAATGACCAC AGTGACCCCA AACTGCTCTT
114901  TGTTTTCACT TTTAATCCCC CTGTCATACA GTTTTCTCT ATCCAGCATC AACAGTGATC
114961  CTTTTTGAAG GTATTATGTC CACTGTCTGC TGAAAAGATT CCACTGGCTT TCCATCACCT
115021  TCATAATAAA AACCAGCATC CTTATCATAG CCTACAAGTA AGATGACCAA CCATTACAGT
115081  TTGCTGACT CTCAGGGGTT TCTCAGGGTG TAAGACTTAC AGTGCTGAAA CTTAGAAAGT
115141  TCCAAGCAAA CTAGGATGAG CTGCTCAACC TACTAGATCT GTACTCTGGC TACCCTCTGA
115201  CCTCATTCTC TTCGCAGTTC TTTCTCTTCA CTGACCTTGC TGTTCCTGGA ATGGACCAAG
115261  CATTTCCAGC ATCAGCACCT TTATATCTAT TCTTCTCTCC TAGAAGGGTC TTGCTCTGGA
115321  TATCTGAATG GCTCTAGATC CATTTCATT CAAGCCTCTC CTCAAATACC AACCTTAAGA
115381  AAGAGACCTC CCATAATCAT CCCTGTAAA ATAAGCTTTT CTGCTCATT AGCATATATA
115441  TATATAGTTG ACTATCCTCA ATAGCATATA TATATAACAT TTCCCCACCT AGAATTATAT
115501  ATGTAATAAT ATATTTAACA AAAAATACAT ATAACAGAT ATATTTTATT TTGTGTTTGT
115561  TCTCTCTCCC CCAACTGGAA TATATTTTT GAAGGTAGGG ACTTTGTTTT GTCCCAGAAG
115621  TATCCCTAGC ACCTTGAACA GGGCTGACGT TTAACAGGTA GTTTATGGAG GTTTGTGAA
115681  TGAAAGGATG TGTGAATTTT CTATGTAAGT CTCCAGGCTC TCCACTAAGC CCACCAGAAT
115741  GCTAACACAA TCAATTCCCC ATCTCATTCC TTGACCTGCC ACTGCCTGAA GCAATCAGCG
115801  TGCAGTTTCT CTTTAGAAAA TCTGGGGGAT AGTCTAGGGG TTGCAAATTA AGCAACATTA
115861  TCTTTGTTCT GAACAAGGAC TGCATGAGTG TTAGGACTGA AGAAGGCCCA AGGTGGTGGT
115921  GGGTATGCCT AAGATGAGTA TGACATATCA GCAATGCTAT GAACATAGCA ATGCTATGAA
115981  AGGCCAGGCA AAACGTAACA GGAGCTAGTC GTGGCTTATT GTTACAACGA CTATACCTCC
116041  CATATGGGTA ATCGATATCC ACACACCCCT CTACATTGAC TCTGGAATTC AGGAAAGGGA
116101  ATTAAAAATT TCTAATTAT GTACCCCAAT GATTTCAACA ATATCTGGCA TATGAGATCA
116161  ATAAATATCT TTAATAATACC AACTAAGAAA GACATAAAAT GACCCACCTT CCATACCAGG
116221  CTCATTTTTG CTCCTCTGAT TCCTGAAACT ATCCAGAATG CAGCTATGAA TTCTCTCCAT
116281  TGTCAGTTTT AAATTAAGCC AAGCTGGGTA CTTGTGTAAT TCCTCAAGAA ATCCTGGATG
116341  AAAAGTGTCA GGTGGAAAC AGGACCTCAA AATAAAGAGA CATCCATCAC TGAAGCTAAC
116401  ATCGTGAGGC TGAAATCAGT CCTATAACAA TGGTACCAA AAGAGCACA TGAGAGGCAT
116461  TTGTGAATAT TTAATCAGAT GAGAGTAAGA TATTTCCCTA TCAGCTAACC TGAAGTTCAC
116521  ATCCCTTTTC CAGCTGAGTT CTGAAGCTAG ATGTACTTAA CTGGAACACA TAACTGCATC
116581  AGGAACATCC TTTAAACTA TGGCTACAAT GGCTTGACTG GACAAACCCC AGGCTTCCAG

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116641 GTTTAGCACA GGTGGCCCTT CACAGACCAA CATTGCCTAT GCTACCAACC TCATGTCCTA
116701 CCACCCTGCT TGCATCATT CTCTCTCTGC ATATATAAAA ATATATGTGT ATGTATATAA
116761 TCAGCTTTAT TGATATTTAA TATACCACAA AATTTGCCCA CTTTAGGTAC AGTTCAATGA
116821 ATTTTACCGT GTTTTCTTAG TTGTACAACC ATCATCACAA TTTAATTTTCG GAATATTTCT
116881 ATCACCCAAA TTTCCATTTT TGCCTAAAGG GGGAAAAAAA AAGGTTAACT GCTGAAGGCC
116941 GCGGTAACAC TGAAAAAGGT GCCTTTTCTC TCTAAAACAG ATTTTAATCT CCCCTGAATT
117001 TAGTGTCTTG GGTATTCCAG GAGTCTGAAT AGGGTTTCAA TTTTCAGGGT CTTTTTAATA
117061 GAGTAAAACT GTATTGGTGG CGATAAATTT AGTATTGCTC TCAGTACATG ATTGAGGGAT
117121 ACTTAAATGT CTCTGTGATT TTATTTTATA ATCGCTAAAA GATGGTTTTT TTTTTCCTA
117181 AAACAGGGTT TTTGTTTTTT CTCAATAAGC TTCTTAGCTT CCCCTCCGGC TCCCTGGCTT
117241 GCCTCAGGAA ATATTAGCTC ATCAGTTCTG ATTGGTTGAC AGCTACGAAT GGCCCTCATT
117301 GATTGGGCAG CGCTTCTTTG TCCCTTGGAA ACTAATACAA ATTTTAAACA CTACTTTTTT
117361 TCCACTCTTT CTTTCAAGTT GGAATATCGT TGCTCCCCTA CCCATATGTA GTGAGTGGAG
117421 GGCAAACTTG GAGTTCCTT AATCTTCTCT TTTTAGGATG TCAGCTCAGT ATCATTTCATC
117481 TTAATTACAC ATTGAGCTTC TTGACTTAAT GGATACAGCT CTTCTTTTGT TTAGTTGGGC
117541 GGCCCTGAAA AGGGCCTTTG GTTCAGAAAT GCAAGCTGTG GAGAAATCAG CAACCTTAAC
117601 CGCCAAAGCC ATAAAGGGTG CGTCCCTGGC GCTTAAGCGC GTAGACCAGC TCCATGGCAG
117661 TGACTGTCTT GCGCTTGGCG TGCTCCGTAT AGGTGACAGC GTCACGGATC ACGTTCTCCA
117721 AAAACACCTT GAGCACCCCG CGAGTCTCCT CGTAGATCAG ACCAGAGATC CGCTTCACAC
117781 CGCCACGCCG GGCCAGACGC CGGATGGCCG GCTTGGTGAT GCCCTGGATG TTGTCACGCA
117841 ACACCTTGCG GTGGCGCTTG GCACCCCTT TACCCAAACC CTTCCCGCCC TTACCACGTC
117901 CAGACATGAC TTCCCAAGAA GTGAACCAAG AGCAAGTGAG AGAATAGGAA ACCGATCTTT
117961 ATATATCTAC GTTACCCCTG CCCCCACCTC CAGCGGACAC AGAGACTGAA AAGCGCGCAG
118021 GCGGGAAATG TGACGCCCTAC AGTCCGCTCC TTTAACCCTT CCTCCAAGCC CCAGGAAATG
118081 GCGGGAGCAG CGATTGGGGG AGGGTGGGGA GATGAGGGTG GGACCAAGCA GGCTTGACCA
118141 ATGGCCTTTA TTTTCTTAAC AGAGCTACAG GCTTTGAGGA ACTGGGTTAA GAATTAATG
118201 TAAACCCATT CTGACTCCAG AATTATTTTA AGTCGAACCT TTTTTTTAAC CGAATCTCTC
118261 TGTCGCCCAG ACTGGAGTAC ATTAGAGCCA TCTCGATTCA CTGAAACCTC TGCCTCTCAG
118321 GTTCAAGTGT TTCTCCTGCC TCAGCCTTCA GAGTGACCT GGGATTACAA GCGCTCGCCG
118381 TCGCGCCCGG CGTGTTTTTG TATTTTTCGT AGAGACGGGA TTCGGCCATG TTGGCCAGGC
118441 TGATCCCGAA CTCCTGATT CTGGTAATCC GCGCGCCTCA GCCTCTTAA GTGCTTGAAT
118501 TACAGCGCTG AGTCACCGCG ACCGGCCGAA ATCGATTGGT TTTGAAGCCT TCAGTAGCAT
118561 TAAACGAAA AGTGCTCCCA ATGCATTCCC TTTTGTCTTA AATTGGTTTC TTACAGCTAC
118621 TTTACTTGAA AAGGTGGTGG CTCTGAAAAG AGCCTTTGCT TGGACCGTCA GAGAGACCAC
118681 AGTAATCACG CCCTCTCTCC GCGGATGCGG CGGGCGAGCT GGATGTCCTT GGGCATGATA
118741 GTGACGCGCT TGGCGTGGAT GGCGCACAGG TTAGTGTCTT CAAATAGCCC TACCAAGTAG
118801 GCCTCGCACG CCTCCTGCAG AGCCATCACA GCGGAGCTCT GGAAACGCAG GTCTGTTTTA
118861 AAGTCTGCG CAATCTCGCG CACCAGGCGC TGGAAAGGTA GTTTACGAAT AAGCAGTTCA
118921 GTGGACTTCT GATAACGGCG GATCTCGCGC AGAGCCACGG TGCCCGGCCG GTAGCGGTGG
118981 GGCTTTTCA CGCCGCCGGT GGCCGGAGCG CTTTTCGGG CTGCCTTAGT GGCCAAGTGT
119041 TTGCGTGGCG CTTGCCACC AGTAGACTTC CGAGCAGTTT GCTTAGTGCG AGCCATGACC
119101 GAAAAACAGC ACAGCGGAAC ACCCAACACT AGCGCAAATA CGCCCATGAG CTGCTCTATT
119161 TATAGTGTGT AAAGTGCAGT GATTGGATGA TAGAAGACGC TAAATATGAC GTTACACACT
119221 CTGATTGGTC TATCTTTAAG CCAGCAACAA TCGTGCAGTT TCACCGGCTA CTATATTCTA
119281 TTCCAACCTT ACAGATGATT ATTTAAGTGG TATTTTATTA CTACTATTAT TTTATTTTAC
119341 TTTTGCTTTG TTCCCAAGC TGGTCTTAAA CTTGGGCTCA AAAGATCTTC CCGCCTCAGC
119401 ATCCAGAGTA GCTGGGATTA CAGGGGAGCC CCACTGCGCC GGCTTGGACT TTAATTTTTT
119461 AAACCTGTCC TCTTCTACAT CTGGTTTTCA TAACCTGAAG GCTGTGTTTA TTTTCCATAA
119521 AACAAAGCAT TGATTCCAAA GGTATTATAA TTCCCAATT CCGTATAACC TTCAGCTCTT
119581 TAGGAAAAAA AAAAAAGAGG GAATACTGCT CACCTCCTCT CCGGAAATGT
119641 ACCCTTTACG GGAAATTTCT AAACCTTTCA CAAGAATTGG ATTCCTTTGT AATGCTTTAA
119701 TTGACTTAGG AGTGTTATTG AAATCTACAA AGCATCTCAA ACATAGTAGG ATTACACTAT
119761 TACTCAGAAA CATTTTCTAT GAGACGTCTT TCTCTTGATT ATGCTCTTTG AATCCTAAAC
119821 TTGCAGCGTT CTGCAGCTTT TGTTTTCTAA AGCCTAGGTG TACTCTGCCA GTCACAAAAT

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119881 GCGGTTTCTC CAGCACTGCC GCCAGGTACC ACCAGCTGGG AGTTGTTTCT CTTGCGGAGC
119941 AGGAGGTGGA CTTGGCCCCA GAGAACTGG ATAGTGGTTC GCAAGGAACA TAATTTAGCA
120001 TTGCCAAGAG CTAATGCAAT CATTTTGAAG ATCTCAAAAC ACTGAAAAGT GGATTGTGAC
120061 CTTTTTAAAT TCACAAGAGA CAGGCCACAT TCTATCTTTT GATTGGTTTA GGCTATTTTC
120121 TTGAACAGCC ATTTAGAAAG CAGATCTATC ATCCTTCATT TGCATGGAGC GTTCCCATT
120181 TATTTGAAAC CAGTTTAACC CAATAGAAAA AAGGGAGGCA GAACCCATTA TTTAAAGTGG
120241 AAACCTCTGA ATCAGATAAT TAGGAGTATT TCCTTTTCAA AAGTTGCGTT TTTTCAGATA
120301 CCTCGCTTAT TACACTAAGA AAGGTTTATA TCTTTTCAAA AGGGTTTACT TACAAAAATC
120361 TTCCAATTTT GTATACCTGT GTTTCATAAC TGAAGTACCG TCAAACCAAG ATGTAGAGTT
120421 TCCAACCGTT ATTTTCCAAA TTTTGTAGAA TTACGTGAAA TATTTGAATG CATGCCCTCT
120481 CAATAAAATG GGACGTAGGA AGCACTGGTG CAGAAGATGG GTACAATACT TATCTGGGAC
120541 CACTCCATTA TTTGGTTGGC ACGTTGTTTG AAGAAAAAGG GGAAAAGCTC AGGTTACTTA
120601 GCATGGTTCG GACTTATTTG AAAACTACCA CAGCAGGAGC GGAAATAAGA CCGCATTACC
120661 TCACTCTCTG CTGTGCTGTG CTAGGGGGTT ATCCAGAATA GGATTGTAGA AGTGGATGTC
120721 GATTTAATAG TTTTTTATTC TCCCATTAGC TGAGTCTCTG ATTGGCAATG TGAGATCGTT
120781 TTAGCTTATT GATACTTTGA AATGCATTA ACAGCCACAA ACAAGTTAAA GGGTTGTTAC
120841 CATAAAATCT TATCCCCAGG GTGTGCTTGC ATTTATCACC CGTGTGTTGCT TTCACATAA
120901 GTGGACTTAA CTCCCCAGCA GAATGCCTGT CAGGGAACCG GTTTCGTGGA CCCAGCATTT
120961 AACGCCTTTC GCAGGCTTGT GAGGCCATA AATATTTGTT GAATAAAAGA ATGAGTTGAC
121021 CATGTCATGG TCGCTGATT GCGTGTGCTG ACATGGAACA CAGGTTGTAA ACCTTAATAC
121081 CAATTTGGGG CATGTTGTAT GGATGAAAAG GGCATTGGAA ATTCCTGAAG TGCATCCAC
121141 ATTGGACTGT GGAAATAAGT TGCAAGTGCA GAAACGTTTC CACACTTGCA GTTTGAGTAT
121201 TAATTGCAGC GTTTGTGAAT TCTGGTGTG TCTACGATTC ATTCTTGTTC GACGTGAAAG
121261 GTATTGCGA GACATATCGC TCTAAACAT TGCCAGAAAA TGTAATAGAG TTGATGACAA
121321 CTGGCCCTAA CACGGCCTAA AACTCGCACT TTTCTCTCCC TCCGCACTA TTCAAAACAC
121381 TGTATTTTAC ATTTCTTGCA AATTAATAAC TAACATCTCT GGCAACGGAC CTCTAAAAAT
121441 TTCTAATAAA ACTCCTCGGA TGCTTGTGGC ACTGCATTG TAAACCGCCC CCTCTCAACC
121501 TACTCCCTAA AAAAGAGCTG CTTTTTGAGA GAGAAGCGGT ACCCTCTGAT GTTACTGGGC
121561 GGCAGTCTGC CTACAATTTT CTTTACAATG AGGCAACCAG AGCGGCTTTT TCTGTGTGTT
121621 TGCTTGCGTT GAGGGGAGCA GGACCATAGG CCTAGAGGC CCCCAGCTGC CTTCTGAGAC
121681 TGGGCGAAAC CCTCGGCAGC GCGCAGGGGG CGCTAGGGCG CGAGGGGCGG GCACTGACGG
121741 GCACCAATCA CGGCGCAGTC CCACCCTATA AATAGGCTGC GTTGGGGCCT TTTTTTCGCA
121801 TCCTGCTTCG TCAGGTTTAT ACCACTTTAT TTGGTGTGCT GTGTTAGTCA CCATGTCTGA
121861 AACAGTGCTT CCGGCCCTCG CCGCTTCTGC TGCTCCTGAG AAACCTTTAG CTGGCAAGAA
121921 GGCAAGAAA CCGGCTAAGG CTGCAGCAGC CTCCAAGAAA AAACCCGCTG GCCCTCCGT
121981 GTCAGAGCTG ATCGTGCAGG CTGCTTCTCT CTCTAAGGAG CGTGGTGGTG TGTGCTTGGC
122041 AGCTCTTAAA AAGGCGCTGG CGGCCGAGG CTACGACGTG GAGAAGAACA ACAGCCGCAT
122101 TAAGCTGGGC ATTAAGAGCC TGGTAAGCAA GGAACGTTG GTGCAGACAA AGGGTACCGG
122161 AGCCTCGGGT TCCTTCAAGC TCAACAAGAA GCGCTCCTCC GTGGAAACCA AGCCCGGCGC
122221 CTCAGAGGTG GCTACAAAAA CTAAGGCAAC GGGTGCATCT AAAAAGCTCA AAAAGGCCAC
122281 GGGGGCTAGC AAAAAGAGCG TCAAGACTCC GAAAAAGGCT AAAAAGCCTG CGGCAACAAG
122341 GAAATCCTCC AAGAATCCAA AAAAACCCAA AACTGTAAAG CCAAGAAAG TAGCTAAAAG
122401 CCCTGCTAAA GCTAAGGCTG TAAACCCAA GCGGCAAG GCTAGGTGTA CGAAGCCAA
122461 GACTGCCAAA CCAAGAAAG CGGCACCCAA GAAAAAGTAA ATTCAGTTAG AAGTTTCTTC
122521 TAGTAACCCA ACGGCTCTTT TAAGAGCCAC CTACGCATTT CAGGAAAAGA GCTGTAGTAC
122581 ACAGATGAAA TCCCCAAGC AAATGCAACA CGCCCTCAAT TATATTAGAA TCACTTGGAG
122641 AGTCGATAGA ACTTTAATC AGCCTCATCT AGTAAGAATT TACTACTCAA TCTATCAAAG
122701 ATAGCAAGGT GAATTCAAAT GCACCGAGTT AAAATCGAGT TTTAAAGTCA CCTGGGTTTC
122761 GGTAGCCGGA AGTCCCGCGT CTCACGACTC CAAGCTAATT AGTCATAACC GTATTGAACC
122821 AAGGTTGAAG CCCAGTCCCA GGCTTGAGGC TTTTATTAT ACAAGGTTAA AGTGGGGATA
122881 TTGCGTTTGG GGGTCAATAT TGCTAAAGTA GCATTTTCCG AAATTGGGTG GTCCTAAGAA
122941 ATGCTTCTGG GATAGTTGGC AAAATATATG GCTTAACCAC GCCCTCTCCA CAGGAGTGGC
123001 TAGCGAGCTG TCTGTCTTGG GGAAGGACGG TGACCTGCT GCGGTGCTG GCGCCACGT
123061 TGCGCTCCTC TGAAAGCCCC GCCAGGTAGG CCTAGCTCGC TTGCTTCTG CAGCGCCATC

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123121	ATGACAAAGC	TTTGAAACGC	AAAATGCTTT	CTTGTGTCAG	CGCCTTACCA	TGGGTGCACT
123181	TACGGGCTGT	CGACTTGGTT	TAGGCCCTTG	TCAGGACAAA	GGAGCTTAGT	TTGTTGGAGT
123241	TTTAGAGCTG	CAACCCAAAA	TCCCTTGCTC	GGTTTCTCTG	TTTTTAGAAA	CGGAAGCGCC
123301	CTGATTGGAT	ATTTGAAAAT	TACTGTGCTT	AACTGGATCG	TGTTTCATCA	ATCGTGCAGG
123361	ATTTTCAACC	CTGGTGGAGC	CCACACATTC	AAAAGTGAAG	ATCCTTTTCT	CAGAACTGCC
123421	CCTTTAAGCT	TTTGCAATTT	TAATTCTGGG	GGTCAGATTT	TAATAATTGG	ACTTTTTTGT
123481	TTACATCTGA	CAAGAGTATA	TGATGAGCCA	AGTTTACTCA	CTTTTACTTA	GTGCAGTTCA
123541	ATTCTAAAAG	TTTATTTTTG	CGTGTGTGCA	TATGAGTTAA	TAATCAGTTG	TATTTTTTCAA
123601	ACGGTCTTTT	TTCAATTGTT	TTGCTTAGCT	CCTTCCATCG	TCTAAAGTCA	GGGATACAGG
123661	CACATCACAT	CCCTGTTCCC	CCTTCCTCAA	ACTAATATGT	AGCTACCTAG	GTTTATCCTT
123721	TAAAACAAAA	ATTCTCACCT	ATTTTTGTGA	GAAATATACA	TGTTTTTCTT	TGAACTAAGT
123781	ATTTTACATA	CACCTATCTA	TATACATGCA	TACTTGTGGT	TTTGTTTTTT	TAAAAAATAA
123841	AAAAAAAAAA	CACGTTATCT	TTTGAGACTG	GGTCTCAGTC	TGTTGCCAG	ACTGGACTGC
123901	AGTGGCATAA	TCACAGCACA	CTGTAACCTC	CAACTCCTGG	GCTCAGGCTA	TCCTGCAGCC
123961	TCAGCATCCG	GAGTAGCTGG	GATTGCATGC	ACGCACCACC	AAGCCGGGCT	TTTTGTTTTT
124021	ATTTTTTGTG	GAGACAGTCA	CACCATGTGG	TCCAAGCTGG	TCTAGAAATG	GCCTCAAGTG
124081	ATCATCGACC	TCCCAAAGTG	TTGGGATTAC	GGTCACTGTG	CCTGGCCTTG	TATGCATAAT
124141	TGTTTTGTCT	TTTGATTAGG	GTTATTAATT	TAAAAACAA	AGCCTGGACG	CAGTGGCTCA
124201	CATCTGTAAT	CCCAGCACTT	TAGGAAGCCG	GATGGGCAGA	TTACTTGAGC	TCAGGAGTTC
124261	AAGACCAGCC	TGGGCAACAT	GGTGAAATCC	CATCTTGACA	AAAAATACAA	AAAATTAGCA
124321	AGGCCCAGTG	GCACGCACTT	ATAGTCCCAG	CTACTTGGGA	GGCTGGGGTG	GGAGATGAC
124381	TGGAACCTGG	GAGGTAGAGG	CTGCAGTGAG	CAGAGATCGT	GCCACTGCAC	TCAAGCCTAG
124441	GTGACAGAAT	GAGACCCAGT	CTCAAAACAA	AAATAATAAA	AATTTTTTAC	AACGATGTTA
124501	TATACACTTC	TGCATGTTGC	TTTTCTCTTA	ACCAAACCTT	TCTAAAACCC	TGTCATGAAA
124561	AAAGAAATCC	TTACATGGGA	ATAGCATAAG	TTATTCATCC	ATTCTTATT	GATAAGCATT
124621	GATGTTTCCA	GTTACCACTG	CTGAACATGG	TGCAATTGAA	TAGAATTCCA	GGCTGAGAT
124681	TGCTAGGTTT	TAGGTTGTAT	TTTATTATTT	TATTTATTTA	TTTATTTATT	TAGACAGAGT
124741	CTTACTCTGT	CACCCATGGT	GGAGTACAGT	GCCATGACCT	CAGTTGCAAC	CTTTGCCCTC
124801	TGAGTTCAAG	CGATTCTCAT	GCCTCCGGTC	TCCCGAGTAG	CTGGGATTAC	AGGCACCTGC
124861	CACCAGGCCT	GGCTAATTTT	TGTATTTTTA	GGAGAGATGG	GGTTTCACCA	TGTTGGCCAG
124921	ACTGGTCTCA	AACTCCTGGC	CTCAAGTGAT	CTGGCCACCT	CGGCCTCCCG	AAGTGCTGGG
124981	ATTACAGGTG	TGAGCCATGG	CTCCAGACCT	GGACTTTGTC	TTCTGTTTCA	TCAGTCCTTC
125041	TGTTGGTTCA	AGCACAGTAT	CACACTGAAG	ACTGATGATT	CTATATAAAT	ATGGTAAAGA
125101	CTGTACACCC	TAAGTGTCTT	TATTTTTTAA	TTTTAAGGCA	ATTTTAGATT	CCAGCTTTCC
125161	AAAGAATTGT	GGAATGCTTA	GAGCTAGAGA	AGCCTTGGAA	GTCATTTAGT	TTTTGTTTTG
125221	TCAGAGAAAA	TTCTGTAGAG	ACTCTGTCTT	GCTCTCACTG	AATACCATCC	CATAGTACCC
125281	CCCAACAGCT	TTAAAGGGCA	ATAATACCTT	ATGGACAGTA	TGCTTTTCTT	CAAATATATT
125341	CTAAGCCATG	GTCAATGCAA	AAGAGTGAGA	AGGAAAGTAG	AATAAGTTAT	CTAAGAATCA
125401	GTGGGTGCTC	TCTTTAAACT	GATTTATCAC	TCCCCCTTCC	AAACTCTCTT	GAAAGGTCAT
125461	CTGCCTCCCT	TTCTACATAA	GAACCTCTAA	CTCCAAGGGA	GGAAGGTAAG	TTATTCTTAT
125521	TCCTTGCTTA	GAAAAAGAGA	AAATAGGTTT	GGTAAGCATC	CGCTTCTGTC	TACCATTCTC
125581	TGTGTTTCTG	TGTTTTTTAT	AGGATCATTC	AATTATTGGT	TGGCTCTTGA	GAGGGAATGC
125641	AAGGTTCAAG	GACACAAGCC	TAGATCTTGC	CTGTATAGAA	CCTCATGATG	TTATGCTTCT
125701	CTAAAATGAG	GCCTGGAGGA	GACATGTTGA	AAGTGACCCA	TAAATCTGCA	GTATCTCATG
125761	TCTCTCAATG	GGGACAAGGA	GTACCATGGG	AAATAGCATT	AGGTCAATGA	CAGTAACAAC
125821	TCCCAGGTGA	GTTGATTTAT	TCTTTTATTT	ATAAAGTTGT	TAATATGCTA	CATAGTCCCT
125881	AATTTTGCCA	CAAATAGTCA	TTATTTTAAAT	TTTATATTTT	ACTATTGATA	AATGAAGGAA
125941	AAAATGAGTA	GCAGTTAAGC	AGTCCATAAA	CCTACATATA	AAGCAAATTG	GAGATTTTAA
126001	AATTGATTCT	GGATGCTTAA	AATCCTTCTC	ATTGAAAAAA	AATTTCTGAT	TAGAAGATTT
126061	CAACATTCTT	TAAACTGAGA	AGCATAACAT	ATAAACAGAA	AACCACAGCA	AAACAAAAAT
126121	GCAAAGCTCA	ATAAATGAAC	ACAAAGTGAA	CACCATAATA	ATTGCCACAC	AAGTAAAAAA
126181	ACAGAAAAATC	AGCCAACCCCT	CCCAGAGCTG	CCTGATGCTT	GCTTCCAGTC	ACATTATCAC
126241	TCCATCTGCC	CTAAACATAA	CCCCTATTTT	GATTTCCAAT	GCTGTAATTT	AGTATGCCTG
126301	TTTTTGAAAC	ATATAAAATG	GAAATAAAAC	AAATGTAATC	CTATGTACCT	GACATATTTT

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126361 ACTCCAGAAC ATTAGGTTTG AATAGATTCA TCTGTGTTGC TGTGTATAAC TTTAATTCAT
126421 TTTTATTGTT ATGTAATATT CCATGTTATG AGTGCAACAA TTTAGGTGTC TACTGTTGAT
126481 GCATATTTGC TTCCCTTTT CAGCTAATAT AAACAATACC GTGAATATTC CTGTGTATGT
126541 GTCTTGATAT ATATAGGAAT ACATATTTTG TTTGTATACC TAGGAGAGGA ATTGTTGGGT
126601 CAAATGCTAA ACTCTTTTGT AAAGTGCTGA TATTAGGTTT ACATGCGATG AAATGAAAAT
126661 TAAACCACA GTTATAAACA GCATGGATGA ACCTCACAAA CCTAATGTTG ATGGAATCTA
126721 GCTGGGAATT CCTGTTCTTC CATATACTTC CCAATATTTT TTTCCAATTA AAATTGTTAA
126781 TCTTTTGAAG ATGTTATCCA TTGTGGCAGA TGTGCAGTAT TATCTCATT TGGTTTTATT
126841 TTACATCTTT TGCCCATTTT TTCTTAATTG GATTGTATAT CAGTCGACTT GGGCTGCCAT
126901 AACAAAATA CTAGACTAGG TAGCTTGAAC AAAAGGAATT TATTACCTCA CAGTCTCTAA
126961 GGCCAGGCCA GAAATCCTAA ATTGAGGTGC CAAGAGATTC AGTTTCTAGT GAGGGCTCTC
127021 TTATTGACCT GAAGATAGTT GCTGTCTTAG ATTGTTTGGT GCTGAACAGA ATACCAGAGA
127081 CCAATAAATT TATAAGAAT ACAGATTTAT TTCTTACAAT TCTGGTGGCT ATAAAGCCTA
127141 TGGTCGAGGG GCCCACCTCT GGCAAGGGCC TTCTTACTGT TATGGCAGAT GTGAGATGTC
127201 ATCTCATATT CAAACCACAG CAGTCGCCTT TTGTGTCCTC ATGTGGCCTC TTCATATGCC
127261 CATAAATGA CCTCATGTCT CTTCTTTTTC TTATAAGGAC ACCAGATCTA TCAGACTACT
127321 GGCTACTCT TATGACCTCA TTTAACCTTA AATATCTCCA TAAAGTCCCA AAATCCCTAT
127381 CTCCAAATAT AGGCACATTG GGTGTTAGAG TTTCAACATC AATTTTGGGG GAACACAATT
127441 TAGGCCAAAA AGATTGTGTT TTTTCTTGTT GGTTTAAGAT AGCTGTCTTT TTGTCTTTT
127501 TGTCTTTTCT TTTTTTTTGA GGTGGACTCT TGCTGTGTCA CCCGGGTTGG AGTGCAGTGG
127561 CGCTGTCTCA GCTCACTGCA ACCTCCACCT CCTGGGTTCA AGAAATTCTC CTCCTCCCAA
127621 GTAGCTGGGA CTACAGGTGC ATACCACCGC GCCCTGCTAA TTTTGTATT TTTGATAGAG
127681 ACGGGGTTTC ACCATGTTGG CCAGGCTGGT CTCAAACTCC TGACCTCAGG TGATCCACCT
127741 GCCTCGGCCT CCCAAATGTC TGAGATTACA GGTGTGAGCC ACCAAACCTG GCCTGTCTTT
127801 TCTGTTTTAA GTTTTTAAAT TTTGCTCAGC AACCCTTTAT CCATTTTATG TGTTCAGGT
127861 ATTTCTCTG TAAGTTGTCT TCACCTGTGC AGAGGCTGGA GTGCAGTGGC ACAATCACAG
127921 CTCCTGTCAG CCTCCACCTC CCAGGATCAA GCGATCCTCC CATCTTATCC TCCTTAGTAG
127981 GTGGGACTAC ATGTGCAGGC CACCATGCCC AGCTAATCTT TGTATTTTTT TGTAGAGATG
128041 GTGCTGTTGC CCAAGTTGGT CTCAAACTCC TGAGCTCAAG CAATCCATCA ACCTTGGCCT
128101 CCCAAAGTGT TGGGACTAGA GGTGTGAGCC ACCACTGCAC CCAGCCAATG ATATCTCATG
128161 ATGCATTAAA GTCATTAAAT TAGTGTAATC AAATTAAGCA CACTGCCCTT TTATGCACAA
128221 CCTTTTTTGT ATCTTATTTA AAAAATCATT TTCTATTTCA AGGTCATGAA GATCTTATTT
128281 TATAATACCT TCTTGTGAAA TTAGTCTCTA AGACTACCCT CACTTCTAAC ACCAATTATA
128341 AGTTGGGAGG TCTGTGGTTC CCAATCAACC TTAGGTTAGT AATTTGCTAA AAGGACTCAC
128401 AGAACTTGCT GAAGCTGTTA GCCTCATGGT TACAATTTAT TATAGGATAT ATAGCTTATT
128461 ATGTCAATCC AATGCAATGT AAAATTATAC AACTACTTTT AAAAAGATTT TAGCATTTGA
128521 CCCAACAAAT TCACTCTGAG GTATACAAAC AGCAGATATG TGTGCACATA TATACCAAGA
128581 CACATACACA GCAAAATTCA TTGTTGTGTA TAGTTGAAAA GGGGAAACAA CTCAGGAAT
128641 AAAGATTAAA ATCAGCTGAG AAAAGAAACA CACAAGGCAG TATTATGGAT CGAATTGTAT
128701 GCAGATCTCC CTTGCCCCCA GAAGATATGT TAAAGTCCC AACTCCCAGT ACCTCAGAAT
128761 TGTGGCCTTA TTTGGAATA GGATAGTTGC AGATATAATT AGTTAAGATG AGGTTATAGT
128821 ACAGTATGAT GGGCTGGTGA CTTAGAAGAA GTAGTATATA TATATTTTTT AATAGAACTA
128881 GTATTCTTCT AAGGTGGTCA CGTGAAGACA GACACACACA GGCAGAGACT GCGGTTATGC
128941 AGCTGCAGGT CAAGGAATGT CAAAGGTTGC CAGCAAGTAC GAGAAGCTAG GAAGAGTCAA
129001 GGAAGGATTT TCCTACAGGC TTCAGTGGA GCATAGATCT AATGATACCT TCATGTCAGA
129061 TTTCTAGCTT CCAGAACTAC AAGAGAATAT ATTTGTTGTT TTAAGCCACC CTAGCTTCTA
129121 GCTCTTTGTT ACAGCAGCCC TAGGAACTA ATATAGGCAC AATCCAGGCA AGTTCCAAAT
129181 ATGAGCTTCC AGTTGTCCTC TCCAGTAAT ATGAACAGTA TTACTTTCCC AGCATTAATG
129241 TGTGACAATA CACATGACGT ACAGAGCAGT CCCCCTTAT GCACAAAACA TATGTTCCAG
129301 GACCTCCAGT GGATGTCTGA AACCATTGGT AGTACTGAAC TCTATATAGC TGTTTTTTCC
129361 TATACAGACA CAGCTATGAT AAGGCTTAAT TTATAAATTA GGCACAGTAA GAGATTAATA
129421 ACAATAAATT AGAATAATTG TTAAGAATAT ACTGTATAAA AGTTAGGTGA ATGTTTTATT
129481 CTGAAATTTA CCGTTTATTA TTTTGGACT GCAGTAGACC ACAGGAAC TAACCATGTA
129541 GAAACCGTAT ACAAGAGAAC TGTATTTTCA CCGAGCCTCA GTGTGCAGTT TTAATGGCCT

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129601	GCCATGGTTG	ACTGCTCACA	TGGCCGATCT	TTTAGTCTAC	CTCCACAGGT	AGAGCTGATA
129661	CTGTGTGGCT	CAAAGTTCCT	ATTATAAATC	ACATTGTTGA	CTGTGTGGTG	GTCAAAACCT
129721	CCAGGTAAAC	AAAGACACAC	TTATCAGTGA	GAACATTTCA	AGGGTCTAAA	ATTCATCTCC
129781	CAGTAGCTGA	GGGCAAAGGC	TAGACCTCTT	TTTGGGTAAG	ATAAAATTTT	TACCATATAC
129841	TTTATTTTGC	TTTTCATGTT	TAACTTTATT	TTGCTTTTCA	TGTTAGTTCC	CCTGGAATTG
129901	TTTTTTGTGT	ATAGTGTGAA	GTAGGGGGTC	AAGTTTCTTT	TTTTTTCCTT	TTTGTCTCTT
129961	TTCTGTTTAA	AAGGCTATAC	AATTGTCCCA	TGCCATTTAT	TTACAAGAGT	CCTTTCACCA
130021	TTGTTGTATG	GTGCCACTTT	AGATGTAAAT	CAATGTCCAT	ATTTGTTTGA	GCCTGTTCCA
130081	TTCGTTTGTG	TATTTTGTGA	CAACACTGCC	CTGATTATTG	TCATTTTATC	AGTTTGTGATA
130141	TTTAATAAAG	CAACAGATTT	GTTTATTTTG	GGCCCTTGGA	TTTGTGTATT	AAATTTGAAC
130201	CCTGTTTGTG	AATTTCTATA	ATAAAGCTTA	TTGGGAATCT	GATTAGGATT	ACAATGGTTT
130261	TGTAGATCAG	TTTGGGGACA	ATTAATACCT	TTAAAATATT	GACCGCTTCA	ACTGTAAATA
130321	TACTCCTCCA	TTATTTAGTT	TTCTGTTTTA	ATTTATCTGA	GTAATACATT	ATAGTTTTCT
130381	TCGTAGAAGT	CAGATACGTA	GAAAATTCAA	AGCCCAAGTG	CAATAGCTCA	TGTCTGTAAT
130441	ACCAGCACTT	TGGGAGGCCG	ATGTGGGTGG	ATCACCTGAG	GTCAGGAGTT	TGAGACCAGA
130501	CTGGCCAACA	TGGTGAAACC	TCATCTCTAG	TAAAAATACA	AAAATTAGCT	GGGTGTGGTG
130561	GCGGGCACCT	GTAATCCGAG	CTAATCAGGA	GACTGAGGCA	GGAGAATCGC	TGAACCCAG
130621	GAGGCAGAGG	TTGCAGTGAG	CCAAGTTCCT	GTCAGTGCAC	CCCACCCTGG	GCGACAGAGC
130681	GAGACTTCGT	CTCAAAAAA	CAAAAAAAG	AACATTCAAA	TAATCAATGT	AGATAATTCA
130741	AATAACTAAA	AAATGAACAG	TTATTAATAA	ATCAGGATAT	AAAAGCAAAA	AAATCAATAA
130801	CCTCCATATA	TACAAAATGG	CCAGTTAGAG	AAAAAAAAAA	GAATAGGCGA	GACTTAAAAA
130861	GGCTGGGAAT	CTCCCTGAAA	ATCTTTGAGA	GCCTTGGCCC	TGCCCTCAGG	GATTTCTCTG
130921	GCTTCATGCC	CAGATATGGG	TACAGTTCCT	TGTTTAAAAA	AATTTTGCTC	CATCAATCAA
130981	CAAGGGGCTC	CTTCCTCAGA	GCACAAGGAC	CTCCATAACA	CCGGACACTA	GATGTCTAAG
131041	GGACACCTCT	TAAGGAAGTT	AGACTTCCAA	AGAATGGTGT	TTCTCTGTCT	CCCAAACCTC
131101	GGAACTCACA	GCACAAGTGC	TCCTTGGAGT	TCGGTTTCAA	ATCTACAAGG	CTGTCATGGA
131161	GGTTGCAGAC	CAAGTCCGTG	GCCTCAGTGT	CCGGATGTAC	GGTGGCCTTG	GCACCTGAAT
131221	GTGAGAACAT	GACCTCCCTG	AAACCACCAC	AAGTATTGTT	TCATGTTATG	TATGTTTTTT
131281	CTTATCTGAA	ATTCTCTTTC	TTTAAAAAAT	CAAATTACAT	ATTTTTCAG	CCCCTGAACA
131341	AGCTTCATGA	GCATTTATTG	AACCCACAGC	TTTTAAAACC	TACTGAACAC	TTTGCTCTAT
131401	GTTGTCAATC	ACTATCCACC	AATTATTTAA	TTATTGATCA	ATATTGTTTC	CTTAGTGTTG
131461	GGATCATTTA	TGCATGTATT	TCTTTTATAT	TGCATATTTT	ATATTTCTGC	ATTACAGTTA
131521	TTACATATTA	CTTTTGCTAC	AGTAATAGTT	CAGAAAGTGA	CATCCAAAAT	TTAGCTGTGA
131581	AGTGGATGGA	CTGAGGCAGA	ACTGGAGGCA	AGAAAATGTC	ACAGTAATTC	TAAAAAAGAT
131641	GATGTACAAT	TAGAGCAAGA	GAGTAGCACT	GAAATTGAAG	AAAAATAGAT	GCGTTTGAGA
131701	GAAAATTAGG	AGGTAGAATC	AACAGATTAG	ATGTAGGGAT	GAGAAGGGTC	AAAGATGACA
131761	CTAGGGTTTT	TAAGTGGAGC	AAGTAGGTAG	ACAGAACATT	TCTTCCTGAA	AGGGCAGGTC
131821	AGATCATGTG	TTGTCTCAAA	GGGCATGAAG	AGTAGAAAGC	CTGGGACAGA	TCCTGAGATG
131881	ACCAATACCC	ATGGTGCAGG	GAGAGGGAGG	GAGATCTGCT	AAAAAGACTG	CAAATGTCAG
131941	GATAGTAGAA	AATCATGAGT	GTGTGATGTC	CTGGAAGTTG	AGACAGTATC	ACATTTGAGA
132001	ACATTTAAAT	TGGTAACTCT	GACAAAACCT	GGAGGCCAAC	TGTGAATGCC	CATGAGAGTG
132061	AGAAGGCTCC	ACACTTTTGT	GGGCATCAGA	AAGCCCACCA	GGTTCCTGCA	GTGAAGATCT
132121	GAGAAGGATC	CTCTTGTGGC	TTTGGCAGGG	AGAGAAGAAT	TATTATGAAA	TACACCCAG
132181	AACCTTCTTC	AAAACAAAGG	CCTACTCTCA	AGGGGAAAAC	ATTTTGCCAG	AGTCTTATCC
132241	CAGCTGGGAG	AAGGTAATTC	TTCCCACTGC	AGCCTCATCT	AGGCTTTCTG	TCTCACTTAA
132301	GGGAAGAAAA	TTAGTCAACA	GGGATCAGAG	CTTCATGAAA	ATAAATTGGA	AATGGTGCAG
132361	CCAGGAAAGG	AGCAAAGGTC	TGAGGAGGAG	GAGAAGGAGG	AAGAGGAGTT	GTATCATTAT
132421	AAATACTTGA	GGAAGAGGAG	GAGAAGGAGG	AGGAGGAGGA	GTTGTATCAT	TATAAACACT
132481	TGAGGAAGAG	GAGGAGGAGA	AGGAGGAGGA	GGAGTTGTAT	CATTATAAAC	ACTTGAGGAA
132541	GAGGAGGAGG	AGAAGGAGGA	GGAGGAGGAG	TTGTATCATT	ATAAACACTT	GTGACGGTCC
132601	CAGCCCCAAG	ATATAGGCAT	GCTAATAAAC	TGAGCCTTAA	CACCTTGACT	ACAGAATGCT
132661	GCTTCTCCCT	AACACCATCA	AGGCTCCAAC	TGAATAACAA	TGAATTATGA	ATGAAAGAGC
132721	TGTAAGGAGA	GACAAAAGTT	AGAATGAGAC	AAGTATTGTT	ATCTAGAGAT	GCCAAGAAGG
132781	CAAGGAAGAT	AACTAAAAAG	GCACCTCTGA	TTTAGAAATA	GGAAGTCATT	AGTGACCTTG

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132841 TAAATAATGG AGCCAGAGGA ATACCAAGGG CAGAAGCCTC ACTATAGTGT GTTGACCTG
132901 TCAGAGGTCA GGAGGTGTAA CTGACTCTCC CACAGTGTGG CTTTGAAGA GAGAAGTCAG
132961 CAGCTGCATG GAGATTGGG AGAGGGAAAG CTTTTTTTTT TTTTTTTTAA TTGGAAAAGA
133021 CTGAGCTATG TGTAATAGA ATAAGACAGG AAGAGTGTAG ACACAGGAAA GAGGGCAGAC
133081 AAAAAAAGT GCACAGTTAT CTAAGGGAAA CAATGGGATC AAGCTGCAAG TATATAAACT
133141 TGTCTTGATA GAAGAATCCT TGATCTGGTT TATTCAGTGT TTGGTCCAAA CCCACATCCC
133201 GTTCTGCCT GTCTCTGACT TGCTCTGTGC CCCAGAAGCC CAGCTTCTAC AGATAGCATT
133261 AGCTGGGCAG CCCTGCCCTC TTGCAACAGC TGGATTTGGC CAGTGATCAG CCCAGCAGGA
133321 ATGTAGATGG CAAAGGAGAG AGAGGTTAGT GTACTTATTC CCTGCATCAC CCCCCTGCTT
133381 GGTGGGCAGC TCTTCCTCCA CAGTCCCAGC TCTGGCCTAG CTCTGGTTAC AGGTTCCCTC
133441 CCATTGCCTC TTCAGATTTA AAGGTGTGTC TGTCAAGGTA TAACTGGGAG CTAGAAATTG
133501 CACTGAAATT GAACAAAGAA TTTTATGGGA ATGGTTGTTA ACTAGTTATA AGAGGACTGA
133561 AAATGGAAAA GTGGAACAAA CGTATCAGAG ATAGTAATGA CAGAAAGCAA CTACCACCTC
133621 CAGGTTTAGG AGAACAAGGA AAAGATTCTT TGAAGAGATC CCCAGAACTG GGACCTCTGA
133681 GGAGTGTATG CTGGACCACT GATGATGATA TGTCTGTAGA TAGAGGCATG ATGAGGCTGA
133741 TTTTAGGAGC ATGGAAGATC TCCAACTGA AGCCAAGTGC TGTTACTGGA TTCACTGCC
133801 ACTGCCAGGT TGAAGAACCC ATCTGTGAG GATGTCAACA AACAAAGTGG GAAATCTTTT
133861 CACATCCTTC CAGCCCTCTA GTCTTCCTCC AGTGCTTTCT ATTGGTAGGG TTTGGGGAGG
133921 TGGCTAGCAA AGCGGTATTG GAAAAGATAG AAGAGACTAA ATCTTCATAA CCAGCACAGG
133981 GTGACACTGG ATCACTACTG TTGCTGATCT TGGGCTGCCT CATATCCCTT GTTCTTCCCA
134041 TTAGCCCTGT CACAACTTTG TAGATATCCC TTCATTATAT GCCCTTCATA TATCTTTTGT
134101 GTTAACTTTT TTCTGTTGGA ATCCTAATAT GGCACTCCTC CATTTTTCAG GACCAAAAGA
134161 GTATAAAAGA TTATCTTTTA CCAAAAAAAA GACAAAAAAC TGATCTAATT CCTGATTGTA
134221 TCATTACACA ATCTATACAT GTATCAAAAT ATCACATAGT ACCCCATAAA TATATACAAC
134281 TGTGTCCATT AAAAAATAAA ATTAAGAAA AGATGGTAAA TATAGCTCTG TCAGGCAGTG
134341 GAGGTTTTAC CACGATGGCT GTTATTTCCC CCATGAAGGG GGGAGTGAGG GAGCAGCTGA
134401 AAGTAGGTGC TTATAGGGGT ATAGAGGGGC TCAAAGCTTT GAGAGAGGAG AATGTCTGAA
134461 AGAGCTGCCA AATAGCATGC AGGTCCCAGT GGGGCAGAGC CTCTGCTCAT TCACCAGTGC
134521 CTCTTCAATA TCTACACTTA AGCCTAACAC AAAGTGTGTG CTTAATAAGT ATTTGCTGAG
134581 TATGTAAAGT GGAAACAGAA CCAATCTGGC AAAGTTTGTG GGACTGGTGG GCAATGAAGA
134641 TCAGTCAGGT AAAATCTGTG GATATAAATT TATATTGATC AAAAAATTCA AGGTTAGGTG
134701 TTTTCTTCA GTCATGCTCA ACGATGCTTC AGCCATGCTC AACTCTTCTG TAGCCACAGA
134761 AAAAAAGTTTA CCCATAATCG AGCTGTGTCT GTGTCTGAAT AATGAAAAGA CCATGATGCA
134821 AGGGAGTTGG AGACACAGAA ACAGTGTGTT AAGTAATGGG TAATGGAAGC ATGCTACCAG
134881 GGAAAGGAAA GAAGTGCCAA TAGGAAGGAA CAGAGATCTG TGGTCTATG TCCCTGAGC
134941 ATATTCACAT GTTAAAGCTA ATTCAGTTTT CAATCATCAT TAAATTTTGT TTCCTAAATA
135001 TATGGCCATT ATTTTCCACA ACCACACTAA AACTTTATTA CCTCTGGCAA GTGACTATGC
135061 AAGTAACTAA GAGCAAAAAT ATCCACAAT ACCATTTGAG CTATCAATTT AGGGAAAGTC
135121 ATCTGGCTAT AATCTAAGTG ACCCTCCACT GAATGTCAGT ATCTTTCAT ATGTGATTTA
135181 AATCTGGGCC TTCGCAACAC CATGAACTGT TCTGTCTTG AATATCCAGA TTGAAGGAAA
135241 TAATCTGAGT AGTTACGAGT CCTGAAGCTA GAAAGATGGA AACCCCATTT GCTCATCAGA
135301 AAGCCTTAGA GCTTGGGCGC TGGCGGGTCC TGTCTACCG GGACAGAGGG GCTCTTCTCT
135361 CCCCATCTGA TAGTCTGATA ACTAGAGAAG CCGGCCAAT TATTCTCAA GAAGGAGCCA
135421 TCTTAGTTCC TCCTGAAATG TTCATATTTA GAAATTATTG TTTGTCAGTA ATTTAACCCC
135481 TTAATGGGCT TGCCTTGTGG TCCATACCAC TGAGTGCAGA GCTTGCTGG AAGAATTGTG
135541 AGGGCCATTC CATCTCCAG GCAGTAGAGT TCAGTACTTC TTTAAATTTG CTGCTGAACT
135601 CTGTATTGTA AAAGAAAGAA TCATTGGGT GTGGTAGCTC ACACCTGTAA TCCTAGCGCT
135661 TTGGGAGGCT GAGGTGGGAG GATCATTTGA TGCCAGGAGG ACCACTTGAG ACCACCTGG
135721 GTAACATAGC AAGACCCTGT CTTTAGAAAA AAAAAATACA ATAAAAATAA TACAATAAAA
135781 ATAAAAGCAA AAAGAAAGAG TCCATCTTAG GGACAGACTG TAACTACTCA CTGGAGCTTA
135841 CCTTTACATA GTTCAGGATC AATTATAATA AAACACTTTT GTGCAGATTC AATAGGATTA
135901 TTTTAATCCC CATCATCTCT CTGAGTTTCC AGTCAGTTTC TCTGCATGTA GACACCTTTC
135961 TCCAGCCAC CATTTGCTCT CCTCTATAG CTCCACCAAC AAATCAGAAC TTTTCTAAC
136021 TGCACCTAGT GCACCTAGAG TCTACTCCAG AATGCTCATG GAGAAAGTTT CTGAAAGGTA

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136081 AAACCTCTGAA TGATATTTGT AGCTAAAGGG AGACTTGCTA GAGACAATAA GCTAATAGTT
136141 GTAGACTTCA GTAGAAGAGG AATGACACTG CAATGTCCAGG GTGCAGGACT TCAAGAGGGC
136201 AGAGTATGGA AACCCAATGG GAAAAATGCT CACCAGGAAC ATGAAGAGAA GGAATTACGT
136261 GTAAGGATTT CTCAATGTGT TCCCAAATTT GCCCAGCAGA GGGAGGCCTC GGGTTGATGG
136321 CAGGCTGACC ACACAATTAA AGAAGGCTGA ACCTGGGGGC TTTTAACAAC CATCGTGGGC
136381 TCTACTGTAA GCATTTAGAA AAAGAAAGTT ATCCATTCAA AAATATATAT ATTTTAAAC
136441 TTCAGAACAA AATTATGAAG AGCTATATTT ACTTTTCTAC ATTCTAATTT TTATAAATCT
136501 GAGTATATTT TGCATATATT GTTATAGTAC ATATTCAATT TTGTATTTTG CTGTTTTTAC
136561 TTAACCATTT TTAGTAGATT ACTCTGTGTT CATAATAATC ACTTTTTTAA AACTTTTATT
136621 TTTATTTTAT TATTTTTTTT TTGAGTCAGA GTCACACTCT GTCGCCCAGG CTGGAGTGCA
136681 GTGGCGTGAT CTTGGCTTAC TGCAACTTCC ACCTCCTGGA TTCAAGCAGT TCTCCTGCCT
136741 TAGCCTCCTG AGCAGCTGGG ATTACAGGTG TGCACCACCA AGCCCGGCTA ATTTTGTAT
136801 TTTTAGTAAA GACGGGGTTT CACCATGTTG GTCAGGCTGG TCTCCAACCTC CTGACCTCAT
136861 GATCTGCCCA CTTGGCCTC CCAAAGTGCT GGGATAATCA CTTTTTATGC TGCATAATTG
136921 TTCAGATTTG TCAGTACGAC TGTATTTACA CTCATTTGTT TTATTAGAAA GAATTTCCAG
136981 ATATTTTGGC TGCCCTAATT AATTTTACAA TTAATATGAT TTTGAAATTG GGTATTGGCT
137041 CCTTCTGAAT TGGTTTATTA AAATATATTC TAATGTAATT TATGACATTT TCATCATATT
137101 AGCATATTTA TTCTGTTAGA ATTTTATAAT TTATAAAGCT ACAAACCTGTA TGTGATATAG
137161 CTTGTAACTT TATCTCATAA CTTTATGCAG TTACAAGTAG AAATAAAATG TCCCCCTCAA
137221 GATTGCTTAA AATTTTATTA TAAACAAGTG TAAAAAACAA AATCACTAAA AACTCCCTC
137281 TTTTTTCCCC CAAAATGCAT GTTTCCATTT TAACAGAACC CGTATTTAAT CAGCAGATTT
137341 CTATGGTGGC TAGATTTGTA GACTAAATAT TAAAAGTCCC AAAGCAAATG CATTTTTCTC
137401 TTAATTTTAA CTGACTTTTT TTTTTTTTCT TTTTCTGAGA CGGAGTCTTG CTCTGTCGCC
137461 CAGGCTGGAA TGCAGTGGCA CAATCTCGGC TCACTGCAAC CTCGCGCTCC CGGATTACAG
137521 CCATTCTCCT GCCTCAACCT CCCGAGTAGC TGGGACCACA GGCGCCCGCC ACCACGCCCA
137581 GCTAATTTTT TGTATTTTTA GTAGAGACAG GGTTTCACCG TGTTAGCCGG GATGGTCTCG
137641 ATCTCCTGAC CTCATGATCT GCCCACCTCA GCCTCCCAA GTGCTAGGAT CACAGGCATG
137701 AGCCACCGCG CCCCGCCTAC TGACTTTTAT CCAAAGAAAA TATAAGAGCT CTTTCATATA
137761 ACGTATGTTT CTGCTCTTGT TTATTAAATA TGACACATTT AGACTTAAAC TGATTTGAAG
137821 GTTTATGACA TTGTTTAAAGT TATTACATAA TTAATTCATA AAGATAATGA CTAGTTTGAA
137881 CTACTGACAG CTCACACATC ATCAGTTGAA CAGCAGAAAG CTTATTAAGC TACTTTCTTA
137941 TGTTTCTGTC TCCCAGCTAC TAAAGAAAC GAAACCCTTC CAGGTGTTAA GGCAAAACCT
138001 TCCTCCCCCT TTCTTCTATA AATCTGATTC CATGTTAGTG AAATTTCTAC TGATGGCTTT
138061 GGTTCCTCT ATAGTAGAAT AGAGATCCTA TGGCAAAAGT CATGTCTGAC ATGGTAGCAA
138121 ATAGAAATGG GGAAAAGGAA GGTCTGCAAG AGCCAATGTG GGAAATGGGG AGAGGACTGA
138181 CTACAAAAAC CCAGCAGGAA TTCCAGAAGA AAACCTCTCA GGACGGGCAC ATTGGCTCAT
138241 GCCTGTAATC CCAGTACTTT GGGAGGCCGA GGTGGGCAGA TCACTTGAGT CCAGGAGTTT
138301 GAGACCAGCC TGGTCAACAT GGCGAAACCT CATCTCTACA AAAAATAAAA AAATTTGTCA
138361 GGCCTGGTGG CATGCACCTG TAGTCCCAGC TACTCAAGAG ACTTAAGTGG GAGAATCACT
138421 CGAGCCTTGG AGGTGGAGGT TGGTGAAGCC AGATCACGCC ACTGCATTCC AGCCTGGGCG
138481 ACAAAGTGAG ACGCCATCTC AATCAATCAG TCTCCTCGAA AAGCAACATT ATGGAGAGAC
138541 AGGATCCCGT CAAGGCCTGG GGCACACAGG AAAATATTAA GGCAGAAGAG AGTTTCTTCC
138601 CCACACCACA CCGTATCCCA CAGGCACTGC GGATGTGCAT ATGCAAGAGG GGTGATCCT
138661 AAGAATTTAG AGTCACAGAG GAGGAGGCAC CAAGCAGACT GTGGAGAAAG TCATGACCAG
138721 AAAGGGACAG AATGTAAAGC TTCAGCTGAT TATCTGGCCT CAGGGATTCC AGAGGAACTG
138781 GTCCCAATGG TCTCCTGGTG ATGTAGGTTT TTAGGTTTCT TTTACAGGGG TTTTCTGGGA
138841 GATCGTTGAC CCAGTTAGCA TTCAAGCAAC TTCCACCCTG CACTTTTATT CTTTCCCTT
138901 CACCTGCTTA GGTTTTATCT GTCCAGGCAA TAATAATAAA ATTATTGAGC CCTGGACATG
138961 TACCTGTAAA GCTCCTTAAA GATGATGCCT TCTAACTCCT CATTCAACAG ATACAAAAAC
139021 ATTACAATAA AATGACTCAT GCAAGACACC CAGGTAGTTT ATAGCAGCTA ATAAAAACAG
139081 AATAACTATA AAATATGGTA AGTTTATAAA AGTTACATTG AGTATACTTT ATAAGAAGT
139141 CTTATTGAGT TTGCCTAATA ACCACACAGC ACAATAATAA TATGTATATA TTTTAAATA
139201 TGTGTAAATA TGTGTAAAC AAACCTGTAG AAGGTATATC TGAGTACAAC CCTATTCTGT
139261 TTGGTTACCT TTTCTAGTTC ATTATGTAAG TGGCATAGCT ACCTAAGGAC TTATGCTTAT

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139321	AAATGTTACT	CAAAAAAATA	CAGAGGACAT	ATGTGGATAG	ATAATGGAAG	AGATAAGATA
139381	GGTAGGTTGA	AGGGTTGGGC	TGCCCTCCA	CACCTGTGGG	TGTTTCTCGT	TAGGTGGAAT
139441	GAGAGACTTG	GAAAAGAAAG	AGACACAGAG	ACAAAGTATA	GAGAAAGAAA	AAAAGGGGTC
139501	CAGGGGACCG	GTGTTTCAGCA	TACGGAGGAT	CCCACCGGCC	TCTGAGTTCC	CTTAGTATTT
139561	ATTGATCATT	ATTGGGTGTT	TCTCGGAGAG	GGGGATGTGG	CAGGGTCAAA	GGATAATAGT
139621	GGAGAGAAGG	TCAGCAGGTA	AACACGTGAA	CAAAGGTCTC	TGCATCATAA	ACAAGGTAAA
139681	GAATTAAGTG	CTGTGCTTTA	GATATGCATA	CACATAAACA	TCTCAATGAC	TTGAAGAGCA
139741	GTATTGCTGC	CAGCATGTCC	CACCTCCAGC	CCTAAGGCAG	TTTTCCCTTA	TCTCAGTAGA
139801	TGGAATATAC	AATCGGGTTT	TACACTGAGA	CATTCCATTG	CCCAGGGACG	AGCAGGAGAC
139861	AGATGCCTTC	CTCTTGCTC	AACTGCAAAG	AGGCGTTTCT	TCCTCTTTTA	CTAATCCTCC
139921	TCAGCACAGA	CCCTTTACGG	GTGTCGGGCT	GGGGGACGGT	CAGGTCTTTC	CCTTCCCACG
139981	AGGCCACATT	TCAGACTATC	ACATGGGGAG	AAACCTTGGA	CAATACCTGG	CTTTCCTAGG
140041	CAGAGGTCCC	TGTGGCCTTC	CTCAGTGTTT	TGTGTCCCTG	AGTACTTGAG	ATTAGGGAGT
140101	GGAGATGACT	CTTAACGAGC	ATGCTGCCTT	CAAGCATTTT	TTTAACAAAG	CACATCTTGC
140161	ACAGCCCTTA	ATCCATTTAA	CCCTGAGTTT	ACACAGCATA	TGTCTCAGGG	AGCACAGGGT
140221	TGGGGCTAGG	GTTAGATTAA	CAGCATCTCA	AGGCAGAAGA	ATTTTCTTAA	GTACAGAACA
140281	AAATGGAGTC	TCCTATGTCT	ACTTCTTTCT	ACACAGACAC	AGTAACAATG	TGATCTCTCT
140341	CTCTTTTCCC	CACAGGAGGT	GATGGCCGGA	AGAACATGGC	AGAGGGCAAA	ACAAAACAGC
140401	ATTGGGAACA	AGCTCTGTTT	AAAAGGAGAC	TTGTGAACAG	CAAAGAGTAG	AAAGGGTTCT
140461	CTTACAACCT	AAGCCCATGG	AAGACAAATG	TGTACTGCGT	GAGTTTTAAG	GCAATAGGAG
140521	TAGTGGGACC	TAGGGCACAC	CAGAGAGCAT	ATTAACCTCT	AACTTTTAA	AAACATTATA
140581	TCTGCTGGAC	ACAGTGGCTC	ACACCTTAAT	CCTACAACTT	TGGGAGGCCG	AGGCGGGCGG
140641	GTGTAGCTTG	AGCCCAGGAG	TTCCGAGACCA	ACCTGGGCAA	CATGGCAAAA	TCCCGTCCCT
140701	ACAAAACAAA	CAAAACAAAA	ACAAAATTAG	CCAGGCACGG	TGATGCGTAC	CTGTGGTCCC
140761	AGCTACTCAG	AGGCTGAGGT	GGGAGGATCG	CTTGAGCCCC	GGGAGGTTAA	GGGTGCAGTG
140821	AGCCATGATA	ATGCCACTGC	ATCTCAGCCT	GGGCAACAGA	GGGAGAACCT	GTCTCAAAAC
140881	AAAAACAAAA	ACACACCATA	CCCAACCACA	ATGCATCTGT	CTTAAGTACC	AGTACCACAC
140941	CCCTCTACTC	ACTACTAAAT	AGGTGAGTTC	CCAATCCCTG	GTAGCAGGTT	TAAGCATGTT
141001	ATATTAAAGG	TCTTAGGCTA	GTGACTCATT	CACTCATTAA	ACAAATACTT	ATTGTGCATC
141061	TACTATAAAC	TAAGTACTGT	GCTAGGTACA	AAAGCAAATA	ATCTAAGCTC	TATAAACTTT
141121	ACTTCTTCA	TCAACAAAAT	GGAGATGTTT	TAGGCATCTA	CTCATCATTC	TGAGCTCCAT
141181	CTTTTGTGAC	TGTAGTTGGC	AGAGCTTTTT	ATCAGTTTCT	CTAAATAGCT	CTACCAGTCC
141241	CTGCTGGATG	CTGGCATGCC	CAAAGGATCC	ATCCTGATGG	CCCTGTCTGG	TTACCTTACC
141301	TGCCTGCCTT	TGCAGCACCG	CTCTGCTCTT	CTGCAGGACT	TCCCTTATCC	TTTGGGGTCT
141361	TGCTGCTCTT	AGGCTGCTCT	GCCTGTTTTG	ATCTGCTTTG	CATCACATGT	ATGTAAAGGT
141421	CCTTTCCTTA	TTTACCCATG	ACCAAGGTAT	TATGAGATTC	TGGAATTTCC	CCAAACCACA
141481	TTGATTGCTG	GGAGAATAGA	AGAAGTGGAT	TACAAGTGGG	ACTTAGAAGG	GGAGTATTCC
141541	AGAAGACGTC	TCTGCAAATC	CATTAGAGAG	GACCTTTCTC	CAGTGGTGAC	TCAAAGATGC
141601	AGCTCCTTTC	ATCCTGTGGC	TTGGCCATCT	TCAGCACATG	GCTCCCAAGG	ATGTCTCAG
141661	GATGGTCTCT	AATCCAAGGA	GCCTGAAGAG	AAAAAAAGGC	ATGGAGTATT	GTGAGTGGTA
141721	GGTGGTTATG	GACCAGTTAT	GGAAGAATAC	ACATCACTTT	TGCCACCTT	CTACTAACCA
141781	GAACTCACAC	AGCCATAGAC	ACTGACAAGT	AGGACTTAAC	AAGAATCTAA	TTTTGAGTCT
141841	AGGAATACGA	CTGTAGCAAA	TATTTAACAG	CTTCAAACAC	AGGTGCATTG	CTATCACTAT
141901	GCTTGGCCCA	GGCCTGTCTC	CCTTTCCTGC	CATGTACACG	GGCCAGCAT	TTATGTCTAG
141961	ATTGGGTTGG	TTGGGATATT	AAGACAATAA	TGAACCAATA	CAACATCTTG	AGCATAAAAC
142021	CAACTGATAC	AATGATGTAC	AAGTCAGATG	ATTCTGATGA	TTATGAATTA	TGTCAATAAA
142081	AGAAATGTGA	TAACCTAAGG	AATTTTGTG	TTGGCAAATT	TTTGTGTTG	CATGACAGGA
142141	TGAAATCCTG	TCATTTGTAG	CAACATGGAT	GGAATTGCAG	GATACTACAT	TAAGTGAAAT
142201	AAGCCAGAAA	CAGAAAGTTA	AACACCACAT	GTTCTCACTT	ATATGCAGAA	GCTAGCTAAC
142261	TAAGTAAATA	AGTTTATCTC	ATTGAAGTAA	AAAGTACAAC	AGAGATTACT	AGAGGCTGGG
142321	AATGGTAGGG	GAAAGAGATG	ATAAAGAGAG	ATTCAATAAA	ATAAGTTACA	GCTAGATAAG
142381	AGCAATCAGT	TCTAGTGTTT	TATTTGTACT	ACAGAATGGC	AATAGTTAAC	AGTAATAAAT
142441	AATTTCAAAG	AGCTAGAAAA	GAGGACATTG	AATGTTTCCA	ACACAAAGAA	ATGAGAAATG
142501	CTTGAAATAA	TGGATATTCT	AATTAATTAC	CCTGATCTGA	TCACTATACA	CAGTATGTAT

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142561 AAAAATAACA CTATGGGCTG GGCAGCTGG CTCACACCTG TAATCCCAGC ACTTTGGGAG
142621 GCCAAGGTAA GCAGATCACT TGAGGTGAGG AGTTAGAGAC CAGTCTGGCC AACATAGTGA
142681 AACTCCATCC CTACTAAAAA TACAAAAATC AGCCAGGCGT GGTGGCATGT GCCTGTAATC
142741 CCAGCTACTC AGGAGGCTGA GGCAAGAGAA TTGCTTGAAC CCAGGAGGCG GAGGTTGCAG
142801 TGAGCCGAAA TCGCGCCACT GCACTCCAGC CTGGGTAACA GAGCAAGGCT CTGTTTCAAA
142861 AATAAAATAA TACATAAATA AATATTTTAT AAAAAAAGAA CATCACTATG CACCCCATAT
142921 ATACATATAA TTATTATGTC AATTTGAAAC ATAATTTTGA AAAATGAAAA AATGAAACAC
142981 AAATATGAAT CAATCCTCTC CAAGTTGATA TACTTAAAAG GAAAAAGTC CGAGGGCTTA
143041 AACTATTCAA TCAAAATTTT ATTAATATGC TATAGTAATC TGGAAAGTAT TTCAGAATGA
143101 ATTGGTATAA GGTTAGACAC AAAGATCAGT GAAACAAAAT AGAGAACCCA GAAATAGATT
143161 CACACATCTA TGGACAACTG GTTTTGACAA AGGTGTCAAG GCTATTTAAT AAGTAAAAAA
143221 ATCGTCTTTT CAGTAAATGT TTCTTGAACA AGTAGACATC CGGTGTGGGG GAGAGGAGCA
143281 GGAGCCTTAC CTCAACTTT ATGCAAAAAT TAACCAAAA TAGACCATAG ACTTAAATGT
143341 AAAAGCTAAA ATTATAAAAC TTCTTTAAAA AATAGGAGAA AATCATCAAC ACCCTAGGAT
143401 TAGCAAAGAT TTCTTTAAAA CAAAAACACA GGTTTATAGT TTATAAAACA TAAATAACAA
143461 AATGATAAAT TTCATCAAAA GTGAAATTTT GCTTTTCAAA AAACATTATA AAATGAAAAAG
143521 CAGGAGGCTG AGGCATGAGA ATCACTGGAA CCCGGGAGCT ACAGGTTGCA GTGAGCCAAG
143581 ATGGTGCCAC TGCACTCCAG CCTGGGTGAC AAAGTGAGAC TCTTCCTAAA AAATAAATAA
143641 ATAAATAAAT AAATAGAAAA GAAAAAGAAA AATCACAGGC TGAGAGAAAA TATTTATAAT
143701 ACATGTATCT GACAAAGGAC TCGCACCCTG AAAATATAAG GAACCTTATA ACTTAGTAAG
143761 ATGACAAGCC AAAACAAAGA GTAAAGTTT TCAACAGACA TTTCACAAAA GAAACATAC
143821 AAATGGCCAG TATGCACATG AAAAGATTTT AAACATCATT AGTTACTAGG GAAATGCAAG
143881 TCAAAACCA AATGAGATAC TTCACATTCA ACAGAATAGC TAATGTTAAA AGGACTGACA
143941 ATCCCAGGG TGAGCAAGGG TGTGGAGGAA ACTACTCTCA TATATTGTGA ATGTAAGAGG
144001 CATTTTATGA TATACTGAA TTCAGTTTGA TGTATACTG AATTACGGAT ATGAGAATCT
144061 CAAATGAGGA CGAATGGTTT TTACGCACAA AACATGAGAC ACAAATCTGT AAGAAATATA
144121 AAGTCGTGAC CACGTCCTTT CAGAACTTTA ACCTGTTTGC TGAAGTACGT CAGTAACAAT
144181 GGCAGGGAAA GGGTATCTTA AATTTACCA CAGCCTCAA GAGGCCATTT CGTGGATCCG
144241 CTGAGGCTTG GAGTCGGCCT TCTGACCACG AGTCCTGCGG CTATGAAAGA GGAAGCCGCG
144301 GTTCAGGGCG TCCTCGCGAG TCGCGCAGCC CGCCCTGCTC CAGCTGGGGA CACAGGTGGT
144361 CACGGCGCTT TCCAGCTGCA GATCCAGGCG GCAGCCCAAG ATTTGGTCCA GCCGCCAAGG
144421 GGTGGCTCGA GTGACTGACG GGCCTTGAAC GCTCCAGGA CCCACATCTG GAGAGGGAGG
144481 TGGGGGTGGG GTGCTGAAGT CATTCTGGG GCCCCTGGGG GCGGGCATGG ACCTGGGTAA
144541 GGCCAGAGAA ATTGACACCT CGTGACATCC CTGGAAGAGA AGTACGTTCA GTGTCACTCC
144601 AGAGCTGAAA GATACCGCCT TCTGGCTGGT CCCTCCTCAC CTACATACTT TTCTAATTTG
144661 TCTGGAGCAG GCCGGGCATC TGTATTATCT GGTATTTTAA ATATCTGGTT ATTTAAAGC
144721 TCTCCATTAA ATTCACATAC ACGAAAATAA AAATTAAAAA AAATTTTAAA AAAAAGAAAC
144781 AAAAGCTCTC TAATGACCAA GTCCTACACG ATAGTGAATA AATTTTTTGG TGTGGTCCCT
144841 AAAATTGAGT TCATGCCCTT TCTGAAGTAA TAGACGCCCC GAGAAGGGAT CGACTTACCC
144901 ATCATGCCAC AGAGATTAAT TGGCCCCAGA ATTCCTTAGC AGACCGTGTA TATGAACGTC
144961 CTTTGCAATC ATATAAATTA ACTGGGAAAA CCTCATTTAG TATGTTACAT CCCTAGCGTT
145121 TTGTGCCTGA ACACCTTACA AGAACCAGGG ACTATTGCCC CAATATTATA TTTCAAGAAA
145181 GGAAGGCCCA GACAAATGGT GTCACCTGGT CACTTTCACC CAGTTGGTAA ATGAAACCAG
145241 AAATTATAGC TGTACCACAG AAAGGTGAAA ACGTTTCTTT TATAATTTCA CATACAATCT
145301 TTAATGGACC CAGTGTCCAA CACATTAAAG CAAGTGCTCA GGAGTGACAT CAAGATGTAA
145361 AAAATAGTCC TGTCTCAGG GAGTTTAGGT CTTGGAGAAA AGAGACCCAA GGAGACACAA
145421 GACAAAGGGG AAAGAGAAGG AGCGCTGAAG ACTGAGGACC CTGCCTGTGG ACTGAAGTGA
145481 GGATGGGGAC ACCCGATGCC CGGAATATGA CAGTTTGGAG GGGCCTGAAG GACTCTTCTA
145541 TTCTCTATCA GAAAAACAGA ATTACTCTCC TAACCAGAAA AGGTATTTCA ATTTATATTT
145601 TCCATCACAG CACTTTTCTG GTGATAATTT AATGTGTTTT AAAAAATGTA TCACAGTGAT
145661 GGCCTGGTGT GAAATAAATA ATAAATTTT AAGAATTAAA AAATATAAAA ATCTTTTATA
145721 TAGACATTAG GAGTTACAAG GATACTGTG AATTATAATT AGTAATTAAA TTGAAATACT
145781 GATTATTTTC ATTTTATTTT AATTATTTAA TAAACCTAT TTAACATTTA ATATTTATCA
145841 GTAATTAAAT CTAATTGTTA ATATTTATTA TTATAAATTA TTTTAGAATT AAAAAAAGT

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145901 GTAGAAGCGA GGCATGGTGG CTCAAGCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG
145961 GAGGATTGCT TGAGCCCAGT AGTTCAAGAC CAGCCTGGGC AACATGGAGA AACCCGTGCT
146021 CAATACAAAA AAATGAGCCA TGTGTGGTGG TGCGTGCCTG TATTCCCAGC CATTTCTGGAG
146081 GCTGAGGTGG GAGGATGACT TGAGCCTAGG CAGTCAAGGC TGCAGTGAGC CCTGATCTTG
146141 CCACTGCACT CCAGTCTGGG CAACAGAGCA AGACCCTGTG TCAATATACA TATGGACAAA
146201 CTTAAATTTT AAAATGAAAG CATACTACTG ATACAGAATT GAGTAGAGAT GCAAAGCTAG
146261 TCCTATAACC AGAACAATAA AGATAAAAAG GAGAGTGGAA GAAGGTATGT CATGAATTTT
146321 ATGATAAATG GCAATTGCAA ATATCCTGTA GCAGAACAAA ACAACAAAT TGTAGATAAA
146381 ACATATCCAA CCCTTTGGAA GGCCAAGGAG GGAGGATTGT TTGAGCCCAG AAGTTGGAGA
146441 CCAGCCTGGG CAACATAGTG AGACCCTGTA TCTAAAAAGG AAGAAAGAAA AAAAAAATAA
146501 AGGATGATAA AGTAGACAAT ATTGAAAGCC ATTTTCTGCA AATACATAGT GAATTTGATC
146561 AGTAATTTTC TTCCAACAGT GCAAAAATGA ATAGATATTA GTTGCTGAA ATAAAAATCA
146621 AATATCCAAC AAAAAATATT GACTATCTAA TAGTATCTAA GCTAGTAAAT TTGGCCAGTT
146681 ATAAAAATGT TTAATTTTTT ATTTAAAAAA AGAAAACCAT ATTTATAAGA AGAGGTGATA
146741 AAGAGAAATT ATTTAGTTA TGAAGATTTT GTTAGAAAAC TATGAGAAAA AAACATTTTT
146801 TTGTTTTCAA AAAGTGAAAG ATTAAGTTAC CAAACAGTTG CTAAGAATA CCAGATGGCT
146861 GAGCGTGGTG ACTTATGCCT GTAATCCCAG TACTTTGGAA GGCCAAGGCA GGAGGATCAT
146921 TTTAGGCCTG GAGTTGAGA CCAGCCTGGG CACTGTAGCA AGACCCGTCT CTATTAAAAA
146981 AAAAAAATAA AAAAAAATAA AATACCAGAC CTGCTAACA ATAGCAAGA TCAATTAATT
147041 CAAAATTTGA AAAACTGTAA TTTATTTAGC TTTAGAGTAC TCTCGTGATA TGAGATTGCC
147101 AAATTAATAC TTTGGGTGCA TTTCTTTTCT CAAAGGACTT GCAAATTTAC AAAGAAGTGT
147161 TGAAGAAAAG CCACACATTG GCAGGTAATG TTTGCAAAAG ACAGATCTGA TGAAGAACAA
147221 TATTTTTAGA ATATACAAAG AATACTTAAA ACTCAACAGT AAGAAAATAA CCTGATTTAA
147281 AGCAGGCCAA TGACCTGAAC ATCTGTTTAC CAAAGAAGAT ACACAGATGC AAGTATGCAT
147341 ATGAAAAGAT GCTTGACATC ATGTCATTAG GGAAC TGCAA ATTAACAAC GTAGATACCA
147401 CTGCATACCT AGTAGAATGA CCAAAATTTA GAACACTGTC AGCACCAGG GTTGCAAAGA
147461 TAGTGACCAA TAGTAAGTTG TTCATTACTG GTGAGAATGC AAAATGTGCA ATCACTTTGG
147521 AAGACAGTTT GGTGGTTTCT TACAAAAGTA ACCATACTTT TACCATAAGA TTCACCAATC
147581 ACACCTCCTTA GTATTTATCC AAAGGAATTG AAAACTTATC TCCACACAAA AACCTGCACA
147641 TAGATGTTTA TAGCAGCTTT ATTCATAATT TATCCAAAAC TTGGAACAA GATGTCTTTC
147701 AGTAGGTAAG TGGATAACTG TGGTACTTCT GAATAATGGA ATGTTATTTA GAGTTAAAAA
147761 GAAATGCATT CACTTTGGGA GGCCGAAGTG GGTGGATTGC TTGAGGCCAG GAGTTTGAGA
147821 CCAGCCTGGT CAACATGGGA AAACCCCAAT TAGCCGGGCA TAGTGGCGTG AGCCTGTAAT
147881 CCCAGCTACT CGGGAGGCTG AGATATGAGA ATCGTTTGAA CCTGGGAGAT GGAGGTTGCA
147941 GTGAGCCAGT GCCACTGCAC TTCAGCCTGG GCAACAGAGC AAGACTCCTC TGTCTCAAAA
148001 AAAAAAATAA AAAAAAATAA AAAAAAAGAA AGAAAAGAAA AAAGAAAAG AAAAAAATAA
148061 GAAACGATCA AGCCATGAAA ACACATGAAG GAAACTTAAA TGTATGTTAC TAAAAAGCCA
148121 ACCTGAAAAG ACTGCATACT ATATGACTCC AACTGATGCA GGGCAAGCAA GCCAAAAATT
148181 AGGGCTTAGC CCGGAAGAA TTCAAGGGTG AAGTGGTGGT GTTAGCAACT TTTACTGAAG
148241 CAGCAGTGTA CAACAGCAGA ACAGGTACTG CTCCTTGCTG AGCAGGGCTA ACCCATAAGT
148301 AATGTGCCCA GAGTAGCAGC TCAGGGGCGAG TTCTGCAGTA ATATACCTGC TTTAGTTAA
148361 GTGCATGTTA AGGGGGATTA TGCAGAAATT TCTAGAAAAA GAGTGGTAAC TTCGGAGTAG
148421 GTACAGAGGA AAGAAGTCGA TAATGTCCTG TTGTTGCCAT GGCAACGAAA AACTGACATG
148481 GCGCTGGTGG GCGTGTCTTA TGGAGAGGTG CTTAACCTC GTCCCTGTTT CGGCTAGTCT
148541 TCAATCTGGT CCGGAGTAAA GTCCCTGCCT CCGGAGTTCA CTCCTGCTTC CTGCTTCACA
148601 ACTGTATGAC ACTCTAGAAA AGACAGTAAC TATGGACACA GTCAAAAGAT TAGTTGATAG
148661 AAATTGGGTG ACAGGAAGTG TTGAAAAGGC AGAACACAGG ATTTT TAGGG CAGTGAAACT
148721 TCTGTGATAC TATAATGGTG AATACATGAC ATTATACATT TGTCAAAACC CATAGAAAGC
148781 ACAACACCAA GAATAAACCC TAATGTAAAT TACAGACTTT CGTTGATAAT GACGTGTCAA
148841 TGTAAGTTCA ATTGTAATAA ATGTACTACT GTGGTGCTGG ATGTCTATGG TGGGGGGACA
148901 TTTTGTCTTC AATAGTTACA GTTGAAGTAA ATGTTTGTGT TTCCACAAT GCATATGTAG
148961 AAACCTCTAC ATTCAATGTG ATGGTCTTTG GAGGTGGGCT CTTTGGGTGA TAGTTAGGTT
149021 TAGTTGAGAT CCTAGCAGAT CGAGTCTTCA TGATGGGCAT GATGGGACTG GTCCCTTATA
149081 AGAAAAGACC AGAAAAGCTAG CTCTCTCTTT GCCATGTGAA GACATAGCAG GAAGGTAGCC

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149141 ATCTGCAAGC TAGGAAAGGG CCTTCACAAA GAATCAACTC AGACCTCAGA ACAGTGAGAG
149201 ATAAATTGTC GTTGTTTAAG TCACTCAGGC TGTGGTATTT TGTTCAGCA GCCCAACCTA
149261 AGACTGTAA TTGGATTAGA AATTTCTTT TGGGGATGGT GTGTGGCGGG GGGTGC GG
149321 AGTACCTTTG TTAAGCTTTT ATATCAATGA GTTTGTAGGC TTTTCTTTT TGGTCATTGA
149381 CTAGGACAGT TTAATAGTA TGAGTGTGAA GGAGATTGTT GGTCATCTAT TCGATGTCCC
149441 TTCTCTGTTT TTTAATATGA GAACTCCTGA TTTTCAGCCA ACTACCCTGG AAAAAAGCT
149501 AATCTTTCTG ACTTCTTAAG TGTGGCCATG TACTAAATTC TGGCTAATGC AAGGCAAGCC
149561 AAAGGTTTTA TGATAGGTTT TAGGACACTA GAGTAAAAGA GAGCTGTTC ACACATGCTC
149621 TTCACCTAC TTTGTGTCC TTTTTCAT CCTACAACTT GGGTTGTGAG TATGATGGCT
149681 GGAACCTTAG TGGCTCTCTT GGATCCCAGG GGTAAATGAG GGGTGGCTGG AAGGAATCTG
149741 TGATTTCTG GAGTTTCCAT ACACAAACAA GACCTGGATT TTCTGGGCTT CCCAGACTTC
149801 CACATCTAGA CTTGCTTTAA ATGGGAGAGA AATAAACTTG TTTTCAGCCAC TGTCATTTTG
149861 GGCTATTTTA TAGAACTTAA TCTAATCTTC AAGGGTACAT GAATTGCTTT TCCTTAAAAA
149921 AAAAAATCAGC CATAAAATCA TCTTCTTTT TCTTTGTTC CCCACATTAT TTAGTTGGAG
149981 CTCTGTAAC TTTTTTTTTT TTTTTTTTGA GACAAGGTCT TGCTCTGTCA CTTAGGCTGG
150041 AATTCAGTGG CATGACCATG GCTCACTGCA GCCTTGCCCT CCTAGGCTCA AGCAATCCTC
150101 GTCTCAGCCT CCTGAGTAGC TGAACCTAAG GCACATGCCA CCATGCCAG CTAATTTCTT
150161 TTTCTTTAGA GATGGGAGCC TTGCCAGGC TAGTCTCAA CTCCTAGCCT CAAGTGATCC
150221 TCCCATCTCA GCCTCCCAA GTGACAGGAT TACAGGTGTG AGCCACCATG CCTGGCTGCT
150281 CTGTAAGTGT CTGAATTTCA TTTTGTATTT ATCAGTCTGT TTAGATTTTC TTTCCCTTCT
150341 TGGGTCAGTT AGGCCATTGG TTTCTTTTA AAGGTTTCA AATTTATTTG CATCTAATTC
150401 TTCAAATTAC TCTCAAATT ATTCCAGTAT ATATCTTTT GTTCTATTT TCTTCTGTAT
150461 TCTTATTAA AATAGCTAAT GATTTATCTA GCAGGACTTA TATCTTTCC ATAACCTTCC
150521 TGCACCCCAA TTAATCTCCA ATTTTATATT TCTTCTGGCC TTCCTTATAG TTTCCACAGG
150581 TTTATTTTAT TCATTTTSTA AAACCTTTAT TTAATGTGT ATTTTATTAT CATCTTTCT
150641 TATTCAGCAA TCTAAGTGCT TAGGGAGGCC TCCCCTTCT GGGGAAGACC ACACCTACAT TAACACAGGA
150701 TTAACAATGT TAGGGAGGCC TCCCCTTCT GGGGAAGACC ACACCTACAT TAACACAGGA
150761 CTGTGGGATG CCAAGAGGTA GAGAAGAGCT TATGAATATC CAGATTACAT CTTCACTGAT
150821 CCTGCACAAA GGTGGGGTTC CTCGGTTACC CACTGGGTCC TATTACCCAA GTCTGGGTCA
150881 GCATACCGAG ACTACGGGTA TATAGAACAA GTGCAACTGG CGATAATCCT TCTGTTGGGG
150941 AGAAAAATCT TTTTTTCTA TTCATCTTAG GTTCTCCATC TGTGGCCCTA TCAAGTAGAC
151001 TAACAAAAGA CAGATTGACA AGACAGAAAC AAAGCATGTG CATTGTACAA ACACAGGGGA
151061 GTA CTGAGAT GAATACTCAA AAGAGGATTT AGA ACTTGGG CTTATATAGC ATTTTAAGAA
151121 AAGAATACAT TTTTAAAGTG ACAAGGAAGA CGAAAAGGAC TTTGAGTTT TAGTGACGTA
151181 AATTGTGGGA AGGCACTTT TCTTTTCCCT TTTTTTTTTT TTTTTTTTAA AAAAAAGAC
151241 TTCTCTGGTG CTATGTCCAG GTGGATAAGA GTCTAAAGTC TCTGGTGACT AACTTTTGTT
151301 CTTCCCGAG TAAGAAGACA CCTTCACAAT TTCATATCCT GCTTTTAGGC AAACAGGGAG
151361 AGGGCAGAGG TGTGTGTTTG TTTTAACTT ATTTTTTTT TCAATTGTCT TCAACTCAA
151421 ATACTTCTTA TGCCAAAGAT GGCATATCT GCTACCTTC ACTTACTACT TACAACCCAG
151481 CCTTATCAT CATAATTAGA ACTTCTGACC CTGGGGAACA TGGGCAATAG TTTGAACCTC
151541 TTTATATCTC CTTAGGCAG AGATGGAGGC CCAGCCATGC CTCTGACATC TAGACACAAC
151601 TGTGCTTCA TTTCTCTAT TCTCAGAGG GATGTTGTAG GACTTCAACA AATATCAGTA
151661 AACATTAATT TTTTTTTTCC TTGAGGCACA GCATGATCTT GGCTTACTGC AGCTGCTGCA
151721 GGCTCAAGCA ATTCTCCTGC CTTGGCCTCA CGAGTAGCTG GGTACAGGC CCTACCACC
151781 ATGCCCGGCT AATTTTGTA TTTTATAGTAG AGACAGGGTT TCACCATGTT GGCCAGGCTG
151841 GTGTTGAACT CCTGACCTCA AGTGATCCAC CTGCCTCAGC CTCACATAGT TCTGGGATTA
151901 CAGGCGTGAG CCACCATGCC TGGCCATCAA TTTTATGTC AACTCTAAAT TATAACATTT
151961 AGCAATTTTG TGA CTTTTA TGGTCATCAT TAATGTTGTT TATGTTTAG TTGTAGTCCT
152021 GTCATTACTC ACTCGGTAT GGTAAATTGG TCTTTTCAA AATGAAGTTA AGGTCTATTT
152081 GCTCTTCTCT GAATCATAAT AAGAACTGCC AACAGCCATT TCAGCAATAA CTATTTACTG
152141 AGATTTTAAA ATATTTCAAG GTAATTGGTC CTAGCAGACT GGAAAATACC AAATCTTTT
152201 CCAGAACTGA ATCCCCATC AAAGTTCAAT TTTACTCATA ATTCCCTTTT CATTGGAAGC
152261 ATCTCATTGT AAGCCAGTCT TAACCCTTCT CTCACACTTT GCTTGGCTGT TTCTCAGGTA
152321 GAACTCAGTA AGTCTGGTAG CCTCCAGGAC TGCCGCTTAG ATTATTAAAC AACATGTCAG

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152381 TGGTTGGAAG AGTCAATGTT ATTTTGATTT TTCTGTTTTG TTTTGTTTTA AATGCAGTTG
152441 GCGGATAAAT GCAGCTTTCT TTCATTCCCT ACATGAGTTC AAATGGCAGC AAACAAACTA
152501 GGAGAACGCA GACCTTCTGA CTTGTGGGTA CCCCTACTCA TCACCTGAAG ACCCTTGGAA
152561 ATCAAAGCCC TGACCCATTA AAGACGGATG GAGACAGCAA CATACGATCA TCACTATTAT
152621 CTTGCTTTGC CCCAGTCCAG GTTAACCATC TGTGGTATTT TTAGTTGCTA AGTCCATATA
152681 TTCAACATAA ATCAATTATA TATCCACTAA AATCTCAGCA CTAGTCTAAC TACTAAGGAA
152741 ATGACAGCGA AGAAAACAGA CCAAACGTCT GCCCTTATGG GATTATATTT ATTTTCTCTG
152801 TGCTGGTTAA ACCAAGGAGC TTCTGCTCTT TTCTTAGTTC ACCTGGGGGA GGCAGAAACA
152861 AAGGAGAATA TTGATAAACC TGGAAATAGG GCCGGAGAGT ATCAGAGAAG GAAGCCTTCG
152921 GGAAAGTAAA GATGTGGCAG CCAGTATTCC CGTTATAAAA GGATACAACCT CCGGCCTCAT
152981 AGTCCAGAAA AATTCCCACA AGCAGGGGCT GCTCATGCAG ATGAAGGGAA GTTGGGGGAG
153041 AAGTAAGTGC TACATAGCCT TTCTTTTTGC ACAGCCTGAG GGTCCAGAAT CCAGACTGAG
153101 GCTCTTGCTT CATGCCAGTG CCCCTCTGCA CATTTTCCAT ACAAACCTCT AAATCCCATC
153161 CGGTTCCTTC GCCAACATCC ACTTCAAAGT AACGTCTTCC TGAGGTGAAG CCTTCACAAC
153221 CCAAGACACA GGGGAAGGCA GTAAATCTCC TGGAAAGATGT GTCCTGATTG TCCTGGGTGT
153281 ATCCACGAGT CACTTGCTCTC CGATCCTCAG AGAGAATTAG TTCGTGATGA GCTGTATCTG
153341 GATCCAGAGT CACACTAACT GCAAAACAAA ACAAACAAA CAAAAATAAT TTTGTTGCTG
153401 TGAAGAACAC AGGTTATTTT ATTTTATTTT ATTTTGAGAT GGAGTGTGTC TGTCACCCAG
153461 GCTGGAGTGC ACTGGCACTA TCTCAACTCA CTGCAACCTC CACCTCCTGG ATTCAGGCAA
153521 TTCTCCTGCC TCAGCCTCCG GAGTAACTGC GACTACAGGT GCGCACCACC ACAAGTGGCT
153581 AATTTTTTTA AATTTTCTGT AGAGATGGGG TTTCGCCATG TTGGCCAGGC TGGTCTCAAA
153641 CTCCTGACCT GAAGTGTTCC ACCCACCTCG GCCTCCCAA GTGCTGGATT ACACAGGTGT
153701 GAGCCACCAT GCCCAGCCAC AAGTTATTTT CAATAAAACC AGCCTGTGTT CAAACCCAAC
153761 TATTGTTTCT TATAAACTGG GTGAGCTTAG GCAAATCATT TAACTTTCTG AGCCTCAGTT
153821 TGTAACTAT AAAGTGGAAA TTACCGTATT TGTTGCAGAG AATGGTGGTT AGGATTGAAT
153881 AAGCTTATGT TTGCTTAATG CTTGGTAAAA TTCCTGGTAC ATGGTAACCA CCTAATAAGT
153941 GGTAGTTGTT GGGGTGATCA GGCCCAACAC CAGGCCGTGG GGGCTACAAA GTCCGGCGGG
154001 GTCAAAGGAA TGAGAAAAGA CAAGTTAAGA GTGCATAAAG TGGGTCCAGG GTGCCAGCAC
154061 TAGATTGGAG GCTGCAAAGG CCCTAAGCTC TGGGAGCCCA CACTATTTAT TGGTGATCAA
154121 ACAAAGAAGC AGGTGGTGAG GACGTGAGGG TAAACAGGTG AGGGCATGAG GACATGGGGG
154181 TAGAAAGGTA GTGGTGCATT AAGCGTAGCT GTGACAGTTT AGCATTCTCT TTGACACATG
154241 TAGAATATAC TCTGCTGCTT GAGATAGTAG AGGACACGTT TATGAGTGAA AAGCAAGGAA
154301 CCAACAAGTC TGTGCATTT CCAGAGGCTT TGAGGGGTTT TATGCCCTGA GCCCTGGGTT
154361 CCATCCAAGC CACAAGGGGT TTTATGCCCT AGGCTTAGAT TTGTGGTGCG GCAGGGCAGC
154421 CTTCCACCAT TTGGCACAGA GCTTGGTGTT CCAAAGGCCA CGAGGGGTTT TGGACCCTGG
154481 ACCCCGGACA TCTTCCAAGA CTCTTTTACA TTATGACAGA CAAGCCAGTC CTGCTTCAGC
154541 TCTTCTAACA ACATGTAGTA ATAATGATAT CATCAACATC ATCTTCGTCT TAATTATTCA
154601 AGGATGCCAA GGTACAGAAC TAACCTGTTA ATATGGTTAC CATCCTGTCC AAAGTTCTTC
154661 TCCCATGCAG GACTTCCAGG AATCATGAGA CAGTTGAGCA GAAAGATACC TTTTCCCTTC
154721 TCTACTGAAT AACCACCAAC ATTGAGAATC AGAGAGGGAA AATGACTCAG CTAATGTCTT
154781 AGCTTGTAT TGGAAGACCC AGGTCTCATG ACACATGCCT AGTCCCATGA CTTTTAATTG
154841 TAAGCTCTTC TCTTTCCCTT CAGATAATGT TCCATAAGCA TTAGTATGAG ATAATAATAC
154901 ACTGAGGACC AATATACATG AAAAAATCA GACTAGAATC AAACAAGACA GAAAAAAGAT
154961 CTGATAACCT AAAGTGAGAT ACTGAACAGT ATGCAGTTTT AAAAAATAAA AATGGTAATA
155021 GGATGTTCTA ACAAGAGAGT TAAGAAACCA CTGTGCTACT GAGTTAAATG TTGATCAGTT
155081 GGTCTGTGAC AATTAAGGAA TTCAAGTATT CAGAAACACT TCCTGTGCTG GATGCTCTCT
155141 GTTTGTCTT CCAAATAATC CCTCACTTTT CCCTGTCTTG CTCTGTGCCC AGGAAGGCTG
155201 ACATGGACAG ATTAACCAGG CTTTCCGCCC TCTGGCTTGG TTCAGCCAAT GGAAGCACC
155261 AGAGGAGACC ATAGGGCACA AAGAAGCAGC CTTGGGAGTA TTCAGTACCC CAGTCCCACG
155321 CTATGATTTG GAGGGTCTGC ATTCTCTGCT CTCTGGGCAC ACTCTAGTAT AGTTACAGCT
155381 CCCTACACCT GCCACTGAG GCCCAGAGGA GGTGATGGCT CTCTAACTGT TCCTAGTTCT
155441 GGGTGCTTCC TGTTCTTGT GGATTTCCCA ACTCCTCACC TTTGTAAATA CCTCCTTTT
155501 TCAAACCTTA TTCAGTTAGC TTTTATCAGC CTGACTCACA GAAGTTTGGG GTTTCAATTC
155561 ATATTACCTG AATGACCCAG GAAAACCCAT GTTGAGAAAT TAAATGTTT ACGGGGTGGT

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155621 AATACCACTT AAGAGAAAAA ATATCAATTG GATTTTAAAA ATTCCACCTA TCTATTGGTG
155681 TGACACATCA ACAAACAT ATAGAAAGAT TGGAAAGCTAA AAGATAGATA ATATAGTCAT
155741 ATACTGTTAT AGTATTATAT CAAAAGATAT TAAGTCAGAG CATTATTAAG AATGGAAGAA
155801 GGGCCAGGTG TGGTGGCTCA TGCCTGTAAT CCCAGCACTT TGGGAGGCCA AGGCAGGCCG
155861 ATCACTTGAA GCCAGGAGTT CAAGACCAGC CTGCCCAACA TGGCAAAACC CTGGCTCTAC
155921 CAAAAATACA ACAATTAGCT GGGCATTGTG GCACATGCCT GTAATCCAG CTACTTGGGA
155981 GGCTGAAGCA CAAGAATCAC TTGAACCGGG GAGGCAGAGG TTGCAGTGAG CTGAGATTC
156041 GCCACTACAC TACAGCCTGG GTGACAGAGA GAGATTCTGT CTCAAAAAAA AAAAAAAGA
156101 AAGAATGAAA GGAGTCACCT AAAAAAGATA ACACAATTTT AAACATAAAT GTACTACATT
156161 ATTAGTGAAT TCATGTTTAG AATTGTGTTA ATATACAAAG CAAAAATTGT AGAATTATAG
156221 GAGAAATGGA CAAATCTACA ATCATCATGG GATGTTTTAA CATTCTTCTT TCCATAATTG
156281 ATAGATCAGG CAGACCAAAA GAAAGAAATA AGGGAAGATA CGGAAGGTCT GAACAATCTA
156341 AGAAGCGCAA TCTCATAGTC AATACATAAA GCTCAGCAAT TGTTTAATAA TAGTAAGCAG
156401 AGAATATGCA GTTTCTCAG GTATAGATGG AACATGCACT AACTGAGTAA ATACTAGGCA
156461 GAAAACAGTC TGAACAAGTT TCAATAAATC TGTATTACAC AGATCATTTT CTCTAGCCTC
156521 AATATAAGAT TATAAACCAA TAATAAAAAG ATGACTAAAA AGATTCTAAA TATTAGGAAA
156581 TGTAACTAC TAATAAGTCA TTAGAAGATG TATAGAATGG AACAATAATA AAATGTTATT
156641 TATAAAAATA TACAATGAAG CTAAAGCAGA ATTTAAGGA AAATTTGTAG GCTTTAAATG
156701 CTTATCTTAG AAAAAATTAA AAGCTGAACA TTAATGAGCC AAGCATCTAA TTTAAATTTT
156761 AAAAAAGAACA TAGAAAGCCA AATATAATTT TTTAAAAAGA AAAAAATAGAT ATTAACAAT
156821 ATAACAGTGA AGTTAAAGAA AACAAGAATG CAATAAAGAG GAAAAACAAA CAAAAAATA
156881 AGTAGCTTCT TTTAAAGAA ATTTAATAAA ATAGACATAC CTCCAATGAG ATTTATCAAA
156941 GTAAGACAGA AGGCACAAAT GGAATGAATA CAGAACTTTT TTAAATATTA CAGAACTTTA
157001 TAATAAATCT TATGCTACTA ATAAAATTGA AAGTACTGAT AAAATTATTA CTTCCTAGAA
157061 AAAATATTTT TGAGTAAAC TCACTCAAAA AACAAATAAA GCATGGGCAG ACCTAACATT
157121 AAAGAAATGA AATCACTACT TTAATTTTAA CCGACAGATA ATAAAACGTG CATCTTTATC
157181 AAGCAAAAT GGAACTTGTC AGTTTTATAG GAAATTTAGA AGTCAAGGCA TGAGTAATGC
157241 CAATCTCATA CCAATCCTA CAAAGAATAG AAAATTATGG CTCCCGCTTA TAGACATAGA
157301 TATAGAACTC CTGCACAAAA TAATATAAAT AACAAACCAA ATTTTATATT TGCAACTATA
157361 CATATTATAT GTGTATGTAT TATATATGTT AACATATACA TATATAATAT GTATAGCATA
157421 TGTTCTACAT ATTATATATG TATAGTGTAT GTATTTTACA ATATATAAAT GAAACCCAA
157481 TCTTTAATAT ATTCATCTAG ATTGTCATAT ATGACATATA TAATACATTA CATCAAAAT
157541 GTGTACAATA ATCAGGCCAG GCACAGTGAC TCATGCCTGT AATCCCAGCA CGTTGGGAGG
157601 CTGAGCGGGG TCAATCACTT GAGTCCAAGA GTTTGAGACC AGCCTGGTCA ATATGGCCAA
157661 ATTCATCTC TACAAAAAT ATGAAAAAT ATCCAGGCAT TGTGGTGCAC ACCAATAGTC
157721 CCAGCTACTC GGAAGCTGA GGTGAGAGGA TCACTTAAGC CTGGGAGGTG GAGATTGCAG
157781 TGAGTCGAGA TTGCGCCAGT GCACTCCAGC CTGGGTGGCA AAGGGAGACC CTGTCTCAAA
157841 AAAAAATTAA AAAATTAGCC AGGTATGGTG GCCTGTTCTT GTAGTCCAG CAACTGGGGA
157901 GGCTGAGGTG AGAAGATCAC TTTAGCTCAG GTGGTGGAGC CATGATCGCA CCACTGTACC
157961 ACTCGGCTTG GGCAACAGAG TGAGAGCCTG TCTCGAAAAA ACAAATATAT ACACACAGTA
158021 ATCAATATAT ATATTATATG TACCAATCAA TGCTTCACTT TTATATATAA TATAGATTAC
158081 ATCTTATTAG ATATATAGTA TTCCTTCTCC ATAGATAGAT AGATACAGAT ATAGACATAG
158141 TATCTCTAT CCATATTAGA GAGAGGATAC TATATATATC TATAGCATAT AGAGATGCTG
158201 TCTCAAAAAA ATTTAAACAT CAGCCAGATG TGGTGGCCCA TGCCTGTAGT CCCAGCTACT
158261 GGGGAGGCTG AAATGAGAGG ATTGCCATTG ATCCTCTCAT TGGTTGAGCC ATAATCGCAC
158321 TACTGCACCA CTCAGCCTGG GAGACAGAGG GAGACCTGAG GTGGAAGGAT ATAGATATAG
158381 ATATATAAAT AAATATGTAT AGAGAGAATA TAATATATGT GTGTATGTGT ATATATATAT
158441 ATTATGAAGA CACTGGGAGA GAATACTATA TATATATGTG TGTGTGTATA TATATATTAT
158501 GAAGACACTG GTGGGATGGT TTCATTACCA ATTGGACCAA GAGTCCAGGT ATGGAGCCAA
158561 CATGCAATGT TGTTGTTGAC TGAGCTGGCA GAGCACTGGT CATAGTTACG GGAAAAGAAG
158621 GTCTCCAATG AGACATACTT AACAAAATAT ATGAACTTGC CATATACGTG GAGAGTTCTG
158681 GTGTGTATAT AGCCTTCTCT CACCAACCTA GCAATTGTCT TCATCATCAT TATAATGCTA
158741 TCAGAGCAAA GATGACAGCT AAATTTTTTT GTCCCTTTCT TCTTCTTTCT CTTCTTTCCC
158801 CTCCCCCACC TCTTCTCTT CCTCCTCCTC CTTCTCTCTT CTTCTTTTTT TTTTGTAGAT

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158861 GGAGTCTTAC TCTGTCGCTC AAGCTGGAGT GCAGTGGCAC AATCTCAGCT CACTGCAACC
158921 TCTGCCTTCT GGGTTCAAGC AATTCTGCCT AAGCCTCCAG AGTAGCTAGG ACTGCAAGTG
158981 CACACCACCA CACCTGGCTA ATTTTGTAT TTTTAGTAGA GATAGGGTTT CACAATGCTG
159041 GCCAGGCTGG TCTCAAACCTC CTGCCCTCAA GTGATCCTCC TGCCTCGGCC TCCCAATGTG
159101 CTGGGATTAC AGGCGTAAGC CACTGTACCC GGCCTCCTCC TTTAATAGAC AGGGTCTAGC
159161 TCTGTTGCCC AGGCTGGGTA CAGTGGCGTG ATCATAGCTT ACTGCAGCCT CGAACTCCTG
159221 GGCCTCAGGAG ATCCTCCTGC CCTAGTCTCC CCAGTAGCTG GAACTACAGG CATAGCACAC
159281 GGGGCTAATA AAATTAATTA GGTGATAAAA TTCCTGCCC ACTGATGACT AAGCTCTTTG
159341 GACATAAAG ACACAGACCT TGAAGGAAAA TGTGTCTACT TAATTTTGAA ACCCTATTTA
159401 TCAAAAAACA GGATGAAAT GCAAAATGCC ATCCACATGC CAGAAGATAT CAGCTATAAT
159461 AAGTTCCCAT AAATCAATAA GGAAGAAGAAC CCAATAAAAA TTATTAAACC ACAGTAAATC
159521 ATGGGTAAAT CACAGAGGCC TGAAGGGCTA ATGGACATAC AAAAAGAATC TCAATCTCAC
159581 TAGTGAAATC AGAAAAGCAC AAATTAAGTA CACAATTAGG TACCATTTTA AATCTGTAAG
159641 ACTGTCAAAA TCATAAATTA TATAAGTAAA GACTCAGGGA GTTTTGGAGG AGTGAGAGCT
159701 CTTATATTGC TTGTGGGGTA GAATTGGAAC AATTTCAAGA TCTGTAGTAT CTGGTAAAAAT
159761 TATGATATGC ATCCCTCACA CCAGCATGTC ACTCCAAGGT ATCTCCCTGG AGGGAACATT
159821 TACGGGACAC AAGGAAGCAT GGATAAGAA GTTCACAGTA GTATTGTCTG CAACAGCAAC
159881 AACAACAAAA AAACCCAAC ACACACAAC TCAATGCCA GTCCACAAGG CAATGGATTA
159941 AATAAACTTC AGGCCGGAGA TGGTGGTTCA TGCCTGTAAT CCCAACACTT TAGAAGGCCG
160001 AGGCGAGAGG ACTGCTTGAG CCCAGGAGTT CAAGACCAGC CTGAACAAAA TAAAGAGATA
160061 GTGTTTCTAC AAAAAATTTT TAAAAATTA GCCAGACGTG GCAGTGCTTG CCTGTGGTCC
160121 CAGCTACTGG GGAAGCTGAC GTGGGAGGAT TGCTTAAGCC CAGGAATTTA AGGCTGCAGG
160181 GAGCCATGAT GGGGCCATTG CACTCCAGCC TGGGTGACAG AGTGAGACCC TGTCTAAAAG
160241 AGATAAGTAA ATAACAACCT TGCATTTTCT GCCACATTGC AAAATGGTGA GAGAGTGGTT
160301 TCTAGACTCT AGACTCTTTC TATGACTACC TTCTAGTTAT GAGATCCTAC AACACTCACC
160361 TAACCTCTCT GTGTCAATTT TCTCCTCTA TAAAGCAAAA ATGCCCCATA TAGAGAGGAC
160421 TGTGATATAA AACAAGAACC AAGAAAAGTA AAGCTTTTCT AATCTGTCAC AGCTAAAGA
160481 GTGCTCAGTA TATGTGAGTC ATTATTCCTG GTGCTGGTAG GAGTGTATGT TACAACCTTG
160541 AGTCAAGTAA TATGGTACCA TATATTAAGA TTAACAACAA CCTCGGCAAT CCCAGTTTGG
160601 GGTATGTTCC CAAAAGAAAT GAAAGCACCA GGATATAAGG ATGCATGGAC TAGAAAGTTA
160661 TTGTAGCAAC ATTGTAATAA CTAAGTTCTA AAAACAGCCT GAAGCTCCAT CAGTAGGGAT
160721 ATGGTTACAT ATATTTATTA TATTCTTATG GAATATTAGA CATAAAAAGT AACGAGTAAC
160781 ATAGAAGAGA CAGTGTATAT ATGTTACGTT TGTACAACT TAGGGAAGA TATAGATCAC
160841 CCTACCTAGA GAAGTCAGAT TGGAGAGGGG TGGGAAAAAC CTTGAACCTT CTCCTTATAT
160901 CCTTTATATT GTTTGACTGA TTAATAAGTA TTTGTTGCAT CTGCTTGAAG GCAATGTAAA
160961 ATAAAATAAA CATACTTTA AAAATAAAAA TAAAATTTAT TCCTATCACT TTTGTAATAA
161021 AGCTGGGCAC AGTGACTAAC ACTTGTAATC CTAGCACTTT GGGAGGCAGA GACAGGCAGA
161081 TCACCTGAGG TCAGGGGTTT GAGACCAGCC TGGCCAACAT TGTGAAACCC CATCTCTACT
161141 AAAAAATACAA AAATCAGCCA GGCATAGTGG TGCCTACCTG TAATCCCACG CTACCCGGGA
161201 GGCTGAGGCG CTGGAACCCA GGAGGCAGAG GCTGCAGTGA GCTGAGATTG CGGCACTGCA
161261 AGCCAGCCTG GGTAACAGCG AGACTCCATC TCAAAAAAAA ATTTGAAAAA AGAAAAATTT
161321 TAATAACAG TGTTTAAGAG GGGAGAAATA TTTAGTTAAA AGATAAGCCC ATTTAAGAAA
161381 TAGTTTCACT TGACCCGGA GGCAGAGCTT GCAGTGAGCC GAGATCGCAC CACTGCACTC
161441 CAGCCTGGGC GACAGAGCGA GACTCTGTCT CAAAAAAGAA AAAAAAGAAA GAAAGAAAGA
161501 AAGAAATAGT TTCACTTGAA CCATATTATG ATTCCTTCTG TAAAAGATGA GAGTAGGCAA
161561 ATTGACTCAG TGAAATCCCA GCAAACTTA CACAAAGTCT TGTTCTTCCT TCCTGTCATC
161621 TGTATAGGAT GAAATACAGA GTGCTTTTGG GTTTTGTGTG TGTTTGTGTG TGTGTATTTG
161681 AGGGGAACAC AGGTCTATAA TTCCTTTTCT GAAATCCCTG GAACAAAATG GGCTTTGCCA
161741 TTCAAATTAG TTTAGAAGTT ATAAAGGCAA AAAATGCAT ATACTCTAAA GTTCAACCCC
161801 ATCATGGCCT AAGGCAGAGC CCTGTAATCA AATTATCAA TATATCTGCA GCAAAACATT
161861 TATTCAAATT AAGTGGGATA AATAAGAGT TTTAAATAGT CTCATCTCAG TGCCGTTTCAG
161921 GGTGAGCCAC TGTGGAAGAC AGACTCAAGG GTGGCCTTCT ATGATTCTCTG CCTCTGGTG
161981 TTCACACCCT CGTAAAATTC CTTGTCTTTG AGTGTGAGCA GGGCTTATGA ATTGCTCTG
162041 ACCAATAGGA TATGGCAAAG ATGATGGGAT ATAATTTCTA TGATTACGTT TCATTATGTA

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162101	AGACTCCATC	TTGCTGGCAG	ATTTTCTCTA	AAGAGTCTGT	CTCCTGAGCT	CTCTCTGAAG
162161	AAATAACTGG	CCATGTTAGA	AGCCCATGTG	CAAAGAGCTG	AGGGGTGGCC	TGTAGAAGCT
162221	GTGGGCAACC	TCCAGCCAAC	AGCCAGAAAT	AACCAGGGCC	AAAGTCTGCT	AACCATCAGG
162281	AAAGAAATTC	TGCCTGCTAT	CTCAGTGAGC	TTGGAAGTGG	ATTCTTCCTT	AGCCTAGCCT
162341	CCAGATAAGA	ACACAGCCTG	ACCAACACCT	TAACTGCAGC	CTTATCAGAC	CCTAAGCAGC
162401	AGGCCCAACT	AAGCTGTGCC	CAGATTCCCTG	AACCACAAAA	ATTGAGATAA	CATATCAGTG
162361	TTGTATTAAG	GTTCTAAATT	ATGGTAATTT	GTTTGTACTA	ATAGATAACT	AATATAACCA
162421	CCAAATCATT	TCAGGTTAGG	CCAGATTTTT	GTAGCCAAAT	GAATCATGAT	AAAACTTTCC
162481	ATTTTCAGGG	GTTTTTTTGA	TTTTGTACTT	ACGGATACAA	ATTTGTGAAA	GTATAGTCAG
162541	CACGTATTTA	AAAAATCAAG	GGAGCAGGAA	ACTCAGTAAA	TGGTTCTAAC	ATTTTGGAAAT
162601	CTGTAAATTG	GTTGTAACAT	TTGTGATCTG	TGTTATCTAA	GTCAGTTTCC	TAAAATATGT
162661	GAATGATAGG	TTATCATACT	CACCTACTTT	TCTTGCATTG	CTCTAAGAGT	TGGCTGAGCT
162721	ATTGATAATA	AACACTATGA	TCAGATCTAA	TACCATGATG	TGCTATTATG	ATCATGTGTC
162781	AGTCACAGGG	CTAAGCACTT	TGTACATGTT	GATGCATTTA	ATTTTGATGA	TAACTCAATG
162841	AAGTAGGAGC	TGTTAATATT	TTCATTTTTT	AGAGGGGGAA	ACCAAGTCAC	TTGGAGTAAC
162901	ATGGCTAATA	AGTGAAAGAA	TAAGAATTTG	AAAGGTTTGC	ACAGATAACC	AGAATGCAAT
162961	GCTCATCACA	TTCAGTGAGC	AGTGAATCAT	ACTAAGTAGA	GAAAGTATGA	AAGCTCTACT
163021	GAAATTAAGT	AAACAACCTC	TCTGGCTGTG	AGCCTGCCAA	GGGACAGGTG	GTAAACTTGG
163081	TACTGCATA	AGGCCCTTTC	TATCCACAGT	ATTCAGGAAT	TCTTTAGTGA	ACATACCTTG
163141	ATGACTCCTT	AACATTTTCT	TCACATCGAA	GTAAAGCTTG	GAAACATTGC	ACATAGTATG
163201	AAGTTCCAAG	GAGACAGCCT	CTGATGTTTC	CAGCTTCACA	GCCCAACTCC	TAGAATAAGC
163261	AGAGGCGAGA	GATTTCTTCA	GAGGTGCATT	CCATTCAATT	CTATATACGC	ACACCCCTCC
163321	CCTCCTGCAT	TCAAACAGGA	CTTACCTGCT	CAAAGTGTC	TTCACATTCT	ATAAAGAAAC
163381	AAAAAGAAAA	GGTGAGCATG	GGAACATCGG	TATTTTCATG	GGCTTGTCAT	GCAGGGCTAT
163441	TCTTCTTTGC	TTTACCCGAA	GAAGTAAAGA	GAGTTACCCT	AGTCTTAGTC	TTAGATATTG
163501	ATGGATACTC	AAACAAAGTA	ATTTCCACCA	GTCTTAGGTA	TTGATGGATA	CCCAGATGGA
163561	ATAATTCCTA	CCAGCTTCTG	GGAGATTTCAG	CATGGCAGGA	TGTTTATCAA	CATTTGCATC
163621	TATTCTCATC	CTTGCTGAAG	TCTGAGGGCC	AGGAGCTTTG	TCCATGCTCC	CTCTGTAAGG
163681	ACTAGCTTTT	GGTGATCGGA	TTTCTTCAC	AGTGAGCCCA	GATTAGAGAA	CACCTTACAT
163741	AAAGGTCCTT	AGTGGTGAAT	CTGTGCACAG	CCCTGAGACT	GGGCCACTGC	CACCTAAGATG
163801	GTGGTAGCAG	GTATCACACA	GTGGTAAAGC	AATCATGCTA	TACACTCAGC	CTTACAGTAT
163861	AGTCACCAAT	CCTGTTAGTT	AGAACCAGAA	TTAATGGCTC	CAGATGTTTA	TCTTCTTACA
163921	GATAAAGCTG	TAGATTGTAC	CATAACAGCT	CTGGAGCAAG	GGTTCTACAA	GCAAATCAGG
163981	GAAAAGGTTA	TCACTCATTT	TGGCTGCCCC	ACTTCATCAC	CCATCAGTCA	CCTAGTGGAG
164041	TATTTTCAGGA	GAGAGTCAAC	AACCAGGGTT	CTCTGCACAT	GGGCCAAGGA	GGCAAACAGT
164101	GGTAAATGTT	ATCCCGTGGT	TTCATTTGGC	CAAGCTGTGT	TCCCTCAGAA	GTTTATTTTT
164161	CTAATTGACA	TAAAGGTACC	CTATAAATTA	GTGAAGGCCA	GCCTGATGGC	ACTGATGTAC
164221	ATCTAAAAGA	AACATTACTT	TATCTTCCCA	TGCTTCCTTA	CCATTCTCCT	TTAATAGCAC
164281	TATAACATAC	CTTTTTTCCC	TACTCCAAGT	ACACAGCCTC	ACCTGCAGCA	ATTCTGGGC
164341	TGAGCCCTGA	CATTTTTTCT	CCAGTTCCAG	GATGTGGCTC	TTGAGTTCAT	TGCTCTTCAG
164401	CCCCAGACCA	GCCTCATAGT	CCCTCAGTCT	ACTCAGAGTC	TGTTGTTCTT	CTTCTCCAG
164461	CCTCCAGAGA	TAAGACTTCT	CTTCTCATG	TAGGAAACAC	TGGAGATTCT	TAAAGTCAGA
164521	CCGGATTTTT	TGTCTCTGAA	TCTGTACCTT	CTCCTGGAGT	CAAGAAAGTA	TGGTCAAAAG
164581	GTGGAAGTAA	ACCAAATGTC	CATCTATGGA	TGAATGGATA	AACAAGAATG	AAAGTCTGAC
164641	ACACGCTACT	ACATGACAAG	CCTTGAAGAC	ATTCAAGCAA	AATAAGCCAG	AAACAAAAGG
164701	GCAAATATTG	TAAGACTTTG	CTTATACAAG	GCATCTGGAG	TAGTTAAGTT	CATAGAGACA
164761	GAAAGTAAAA	TAGTGGTTAC	AAGGTGTTGG	CAAGACCAGA	AAATGGACAG	TTATTGTTTA
164821	ATGGGTAGTG	AGTTTCAGTT	TAGAAGATGA	AAGATGAAAC	TGAGTTGCAG	TTTGGAGATG
164881	GGAATGGTGA	TGGTTGCACA	ACAATGTAAC	AATGTAAAAG	CACTTAATTC	TACTGAACTA
164941	TATACTTAAA	AGTGGTTAAA	TGCTTAAGTG	TTATATATAT	TTTCACACAA	ACACACACAC
165001	ACACACAATC	AGCCACTGGG	ACATTATTTT	CTCATGAGTC	ACTGAAGCTG	GAGAAGTGTG
165061	CCCAGTTTCC	TGCTGCAGAG	TCATGTGTGG	GAGGCAGGCA	CTCAGATGTG	GAGAGGGTTG
165121	CCTCAGATTG	CTTATAGTCA	CCCAATTAAT	TTTCTTGTTT	TTTCAAGCAAG	ACACAGGAGA
165181	AAGCTGGGTT	AGGAGTGCTA	GATAATTTAA	TTGTGAAACT	AGGGCCAAGT	TCAAACACTT

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165241 TATCAGTTAC AAGGATAAAA AGAGGTTTTT ACTTATGATT TAAGAAGTTA GATTTCTGAG
165301 TTGGAGCGAT TTTCTTGAAG TAAAAGCTTA TAATGAACAT CACCCAGACT GGATTTTAAG
165361 ACAACCAGGC TGGTAAGAGG GTCCATAATT CTTGGCAGGG GGAGCTTTGA GTGTGACAGG
165421 CATTTATTAT GGTAACTGA GAAATACTGT TCTACTACCC TAGGGTCATC TTAAGCATTC
165481 CTATGTGTAA GACTGACAGA AATCAAGTGA AACTCTCATC TGAGGAGATG TAAAGTTGCA
165541 ATTTCCATTA GTGCTGTCTA AATTAATGCA GTGGGAGTGT GTATTTCAGGG CAATTTGAAT
165601 CTATGTTCTT GGATTGCAGT CTTCAAACCTT GGCCCAAATA AACTCTCTAC TTATCTTAAA
165661 AAAATAAAAA TTAATAAATA AAAATAAATT CATACAGTGT TTTGATGACT ATGATATAGA
165721 AGAAGGGTCT TTGACTTAGG ATGAGGTGGA ATTTTGTGT AGGAGACAGG TGCAGCTTTA
165781 ACTCTTGAT AGACGGGTTT TCATATATGT TAGTTACAAT CAAGGTCTTC CCCATTGCCC
165841 AAGATCCTAG AAATGGGGGA AGTAAGAGTG TACTCAGGAG CTCAAGAGCA ACATCCACAA
165901 ACAAAGATCA GGGTAGAGGT TAGAGAGGAC AACTGTAATC TCCTGAAAGA GAGAAAATTG GTAATCAGCT
165961 TGTGGGATTT TACTGCAAGC TAGTGAATTA TATAAATATA AAGATTGGTG CAAAAGTAAT
166021 TGTGGTTTTT GCCTTTACTT TAATGGCAAA GACCGCAATT ACTTTTGAC AAACCTAAAT
166081 ATTTCCATAA AAGAATGTGG CTCTGATAAT GTGGAGGTTA GTCAGCCACG GAAATAATCT
166141 GAAAGTTTGT AGTTGCAAGT GTGTAGGTTG TTGCATTACT TGTGATGTAC TTATAAATCA
166201 AGTATAGGCC GGGTGCAGTG GCTCACGCC TTAATCCCAG CACTTTGGGA GGCTGAGGTG
166261 GGTGAATCAC GAGGTCAGGA GATCAAGACC ATCCTGGCCA ACATGGTGAA ACCCGTCTC
166321 TACTAAAATA CAAAAAATTA GCCAGGCATG GTAGCACATG CCTGTAATCC CAGCTACTCA
166381 AGAGGCTGAG GCAGGGGAAT TGCTTGAACC CGGAGGTGG ACATTGCAGT GAGCTGAGAT
166441 CGCACCATA CACTCCAGCA AGACTCCAT TCAAAAATA GTAATAATTT AAAATAAAT
166501 AAATAAATAA AGTATATTTT TTTTCATCAGC TTCATGAGCT TGAGTAGTAT GAATTTCAAT
166561 CTGGAGTGAT CCTGTTTTCT AAGTGTTTCA AAAGCTTGGT TTCTGTACCT GTAAAGTTGA
166621 GAGCCAGATG CTCCACTGTG GTAAAGTGC CAGGGTAATG AGTTGAGGCC TGCAAAACCAG
166681 GTTTATTTTG AGGTATTTAA AGTTTGAGAC CCACTCGATG CTTTTCTAG GTAAATAGTC
166741 ATACTAATTC TGCTTCTTCT GACTGAAGTA TCAGGAATCC CAGCCAACTA CAGTTTAAAG
166801 ATGGAAGAT TGGTGCTAAA TACTCATGGA TGTAAACCTG GAACCAGGGG CATAAGTACA
166861 AATAATGGTT TCTTCCTTGG GTTTCATTTT TTCAATCTGG TTTAGTGAGA ATAAATCCTC
166921 ATTGTGCTTT TCCTCAATCA TCCCCTATGC CTAAGCTCTA GAATGGAAA TAGCTTGAGA
166981 TCAATGAAGT CAGATTCTTA CTTTCCATT AGTTATTCGC ATTGCTGTGG ACAGCTTCTG
167041 CTCCGTACAT CTGTCTTCAA GTTGCTTCAG TTTTGTACA GCTTTCTGGA GCTTTCTCTG
167101 AAGGAAAAAT TTGATAAGTG AAGCCTATTC AATTTGACTC TTCATTAGGG ACCTAGGGGG
167161 AATCCCAATC TTCTAAGATA TATTTGAATA ATAGTGAATA TTTATAGAGT CCTCATTGTT
167221 TTTTGCTAGA GAGCATGCTA AAGGCTATAT GTGCAGGAAC ATACTGATCC CCTTGGCAAC
167281 CCTGAATAGT TGGTAGGATT TTAACCTTCA TTTCTGTGCT GTAGAAAATG AGACTAAGAA
167341 AGGGGTAAAA TAACTTGCCC AAAGGGCTAT GACTGCCAGG TGGTGGAGCA ACAATTGCAA
167401 TCTCATCTGC TGACCCAGAG CCTGAGCTAT GTCCACCACT AGAGTCCTGC CAGGAAAAAG
167461 TTGGATATAG AACAAGGTAA TCATCATCTA AAAGATTTTG TAAAACAACA TGCTGAACCA
167521 AGCAAAACCA ATACCAAGTG TTGGCACA TAAGATTTTG TGCTTTATGA GTCAGGAAAA
167581 ATCAGGATGC CAGCTGGTTA TTAGAAACAG TTCATGGAAG AGGGGAATTC TGGTATCTTT
167641 TGAACAATGG TATCATGAAT CCAATTTAAA ATGATTTAGT ATTCATGTCA AGCTTTTAGC
167701 TTATTCTTCA AAACAGTTTC TCATATTTCT ATTGAAAGTG ATTTGAAGCT GACCCAAAT
167761 GCTAATTGTA GTCAATGCTG AAAGAATTGT CTCCTGTCCT CTGTAAACCC AACAAGTATA
167821 CTCATTCATT CTCGAGTGTT CTCAGGAAAA GGTTCTATGT AACTGTTTTA GCAAAAGATG
167881 ACATTGTCCT TACTATATGC CAAGTGCTAT TCTATGCATT CTATATTTTA ATGTCCTCAA
167941 AGCTTATAAC CACCTCCTGT GTATGTGTTT TAGGGAGGGA GGACACTGCT ATTATCCCCA
168001 TTTACAGATG GAGAAAACCA GGTGTGAAGA CATTAAAGTAA CGTGCCCAA ATTGCCCATC
168061 TAGTAAGTGA CAAAACCTCA TTTCAACATA AGCTGGTTCC TTTTCTTACT ACTTGTGGA
168121 AAAGTAATTC AAATGGGAAT ATGATCATCG CAGTTATTAG CTGCTCCATG GAGTTTAAGG
168181 AAGAGCTGCC ATGAGCTGAG TGGTGGTCAT GATTGACATG TCCTTAGAAG GACTTAGAGC
168241 CTTACATACAA GACCACCTCT GCCTCATGGA GGACAGAATA AGGAGCCTGA CACTGGAGAC
168301 AACATTTTCC TCAAATTTAG GCAGGACAGA GAAGGAAAAA GGACATCAGG ACTATGCCCA
168361 TTCCTCCATG CTGCCAACAG CAAAGTCCCA CCTTCCTTAA TATGCTTTCT GGCAAGAAAT
168421 CTGGATGGTA CACAAAACCT CTCCTCTGCT TTCACCTTCC ACAACCAAGC ATTTCCAAAT

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168481	CTTTGACTCT	TCTTCCTGAA	TCGTGCTTAA	AATCTGCCCT	CTCCTCCCTT	TCTTATACGG
168541	ATAGTTTGAA	TTTTACTCCT	TGATATTCCT	TTTATCATAG	ACATGCCACA	GTAGCTGGGC
168601	ACAGTGGTTC	ATGCCTCTAA	TCCCAGCATT	TTGGGAGGCT	GAGATGGGAG	GGAGACCAGG
168661	GGTTTGAGGC	CAGTATAAGC	AAGAAAGGCA	GACCATGTCT	CTACAAAAAA	TAAAAAAATT
168721	ATCCAGGTAT	GGTGGGGCAT	CCCTGTAGTC	CTAGCTACTT	GGGAGGCTGA	GGTGGGAGGA
168781	TTGCTTGAGC	CCCAGAAGGT	TGAGGCTGCA	GTGAGCCGAG	ATTGCACCAT	TGTACTCCAA
168841	CCTGGGATAC	AGAGCAAGAC	CCTACCTCAG	AAAAAAAAAA	AAAAAAAAAA	AAAGTAGAGG
168901	TACCAGAGTG	ATATTTTCAA	TGTCACCTGAC	CCTTCATTCC	CCAAATGAAA	ATCCCCCAAT
168961	AGGTGTTCAA	TTTTTACGTG	TCCTTCAGGA	GTTACTTCTA	AGATGAACCA	CTCTCTACCC
169021	TAAATGTCCC	TCCCCACCAC	CAAAACCAGG	GACCTCCAGG	CAGACATTTT	TGATGGTTTTG
169081	TTTTCTTTAC	TAGACTGTAG	ATACCTAAAA	GGTGATGGGT	CTTTCTTCCC	TGTTTTCAGG
169141	CCCTACTGCA	TGGCTTTTACA	TATTGTGGTT	TTTCAAATGA	TATTCATGGT	GTGAAACAAG
169201	AAAAAATGCG	GGTGTTTGGT	TTGAGAACAA	CCTGTTCTAA	AGCAAAAAAG	AAATTCATCAT
169261	AACACAAATG	GATAGAGATA	AGAGTCCAAC	CATCCCATTG	AAGGTCAGGA	TGGCAGTCTT
169321	AGATAATTGA	GCAAGAAATC	ATCATAAACT	ATTTTTTCAGA	AGAATGACAT	GATGAAAGCT
169381	GTATTTCCAA	GTCATAATGT	TAGGTTTCAA	GTAAATCAT	CTCAGCTCCT	GGGGAGCAGG
169441	ATAAGACTTG	GTACTTACCA	AAGCTCCCGG	GCCACACAC	TCACCTTGTA	GCCCTGGCAT
169501	ACGTCTTCAA	CAAGAGCTGT	GGTGTGCCCT	TTGTGCTGTG	GTGCCCCGCTC	ACAGCGCCAG
169561	CAGATGAGCT	GCCCCTCATC	TTGCAGAAC	AGGTGGAAC	GCTCTCCGTG	TTCTCTACAT
169621	GACATTCTT	GATCCGTCTC	TTTGAGGGCT	TCAATGAGGC	TTCCCAGCTG	CTTGTTGGGT
169681	CGGAGGCTAT	CCATATGAAA	TGGAGCCCGA	CAGTGGGGAC	AGCAGAATGT	CTCCTGCCTC
169741	AGTTGCTTTT	GGCTTGGGTT	TTTAAAGAAG	TCTGTTATAC	ACAAGTGGCA	GTAGCTGTGT
169801	CCACAGTTGA	TGCTTACTGG	GTTTCGTATC	AGGCTCAGGC	AGATGGAGCA	GGTGGCTTCC
169861	TCCATCATCT	TCTTGGTGCT	GGTGGTTGAG	GCCATAGCTT	TTATTGAAAA	GCTCCAATAT
169921	TGGCTCTAGA	GATGGAGATG	AAGCAGCCAG	AATTTTCCAC	CGTGATGAAA	ATACACCTCA
169981	CCTGCACCTC	TATGTGATGA	GCTGGCTGCA	ACTGACTTCC	ATAGGTCTTG	AAGGTTTTCC
170041	TTCCAACCCC	TATTATCTCA	TTTTGTATTG	AAGAAAAGAG	GACCTAAAAG	GAAGAAGTTG
170101	AGGCTGAGGT	TGTTTGGGCC	ACGTTTGAGA	ACTGCAACCC	AAGTGCAGAG	TTTCAAGTTG
170161	CCCTCATTAG	CAAGCAGTTA	CAAGTGGTTG	TTTAGAGGAA	AAAAAGCAGT	TTTAAAGCAG
170221	TTTTAAAGTT	GTTTGCCAAG	AAATTACATT	AAAATAGCAT	AAGCTTTTGA	CTGGCTATAC
170281	ATTGTTCTTT	GTATTACAAA	TCTCGGGAAT	ATGTAGGTAA	TAGATGAGGC	AGGCTAGCAG
170341	GAACAAAATG	CTTTTAAACA	TGGGGTCTTA	ACTGAAGACC	TATACTCCTG	CCTCACTTGT
170401	CCTGATAAAT	TTTGCATACC	TCACATAGCT	CAGACTGCTC	TAAATTATTT	CATTATTTTTT
170461	CTTTTCTCAG	TCTTCTAACT	TTTTTTTTTT	TTTTTAATGA	GACGGAGTCT	CACTCTGTCA
170521	CCCAGGCTGG	AGTGCAGTGA	CGCTATCTCG	GCTCACTGCA	CCTCCGCCTC	CCGGGTTCAA
170581	GCGATTCTCC	TGCCTCAGCC	TCCCGAGTAG	TAGCTGGGTC	TACAGGTGTG	CACCACTACG
170641	CCCAGCTAAT	TTTTGTATTT	TTAGTAGAGA	TGGGGTTTCA	CCATGTTGGT	TGGCTAGGAT
170701	GGTCTCGATC	TCTCGACCTT	GTGATCCACC	CGCCTCAGCC	TCCCAAAGTG	CCAGGATTAC
170761	AGGCATGAGC	CACCGTGCCC	AGCCTCTTTT	TCTTTTCTTA	TAAGACAAGT	TCTCGCTCTC
170821	TTGCCCAGGC	TGTAGTGGAG	GGCAGTGGCA	TGACCACAGC	TCACTGCAGC	CTCGACCTCC
170881	TGGGTTTAAG	CAATCCTCCT	GCCTCACCTT	GGCAGAGTGG	CTGGGACTAC	AGGTATGTGC
170941	CACCATGTCC	AGCTAAAGTC	TTCTCTCCAG	AAAGAAGAAA	TGCATTGGAA	TTTAGAGGAT
171001	ACACAAACAT	CTAGCTGTAT	AGCTAATACA	GTAGCCACTA	TCATGAGTAG	GAATTTAAAT
171061	TTAACTTAAT	AAAAATTAAA	ATGAAAAAAT	TCAGTTTTTC	TGTTCCAGTT	GCCACATTTT
171121	GATTGCTTAA	TAGTTGCATG	TGACTAGTGG	CTACATAACA	GCCTCAATAT	ACAACATTCT
171181	GTTATCACAG	AAAGTTACCT	TGGACCAAGT	GCTGGGAGAA	GCAATGCAGG	CTTCCTCACA
171241	AAAGCTGTAA	AAGAGAGAAC	TCAGGGAGTG	TGAAACTCTT	TCCTATTCTA	GTTAACTTCA
171301	AGAATAATTG	TTACCAGGCC	AGCACGGTGG	CTCACGCCCTG	TAATCCTAGC	ACTTTGGGAA
171361	GCCGAGGCGG	GCAGATCACC	TGAGGTCAGG	AGTTTGAGAC	CAGCCTGACC	AACATGGCAA
171421	AACCTCATCT	CTACTAAAAA	TACAAAAAGT	TAGCTAGATG	TGGTGGTGCA	CACCTGTAAT
171481	CCCAGCTGCT	CAGGAGGCTG	AGGAAGGAGA	ATGACTTGAG	CTCCGGAGGG	GGAGGTTGCA
171541	GTGAGCCCAG	ATTACACCAC	TGCACCTCCAG	CCTGGGTGAA	AGAGCGAGAA	TCTGTCTTAA
171601	AAAAAAAAAA	AAAAGAATAA	TTGGTACCAG	AATTACTCTT	TGTAATTAGT	AGTAACACTT
171661	ATGCAATTGG	GTGATCTGTG	ACAGATTCCA	TTGAAGGAGT	ATGGGGAGCT	TCACCCCAAT

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171721 ATATGACTCC CTGGTATAAT GAGTATTTTG AATTAAAGGC CCTTAGAGAT CAGCAGATGC
 171781 TGAAGAGAC TTTTCCCCTA TCTACATAAA GACCAGTCAC ACTAGACAAG AAGAACAATT
 171841 GTTTTTCCTT CCAACCCCTA TTATCTCATT TTGTACTGAA GAAAAGAGGA CTAAGAATGT
 171901 AACCAGACCT AATCAGACAC TTTCACAAAA TAATGTCTGT CTCTCAGGCT CATTCAATTT
 171961 CCAAAGAGAA CCATTTACAA GTTAAACTCT GTTCCTCCAT TCATTCATCC TCCCAAATAT
 172021 TCATTTATTC TCCCTAGTAA TCATTTACTG CCCCTCAAAG AATTACCTAT ATTCTCCTGA
 172081 TATCACCCTT CCCCTCTGAA ATAAATATGT ATACATGTAT AAACGTTATA CATACATATT
 172141 TATACAGTAT ACATACATAT TTATACATAC ATACATATGC ATACATATTT ATATTTATGT
 172201 ATTTATACAT AAGTATTTAT AAATAAGGCT ATATAAGTAT CTACCCCAT TGGCAGAGGG
 172261 GGTAACTACT CTGTGATTCT AGCCCATGTA CTGTGTAATA AATTTGTATG CCTTTTCTCC
 172321 AATTAGCCTG CCTTTTGTGA GTCGATTTTT CAGTGAACCT CAGAAGGCAA AGGGGAAGTG
 172381 TTCCCTTGGC TCCTACACCA TCATGACAA AAAATTTGAC TCCACCTCGA CCCCCCAT
 172441 CCCCCACAAA GAACAACAAC CAACACTGGT TAATAAGGTC GGTTGTTTTT TGTTTGTGTT
 172501 TTTGTTGTTG TTGTTGTTGT TGTTGTTTTT GCTTTCAGGA GCAGAGGTAT AATAGGCAAA
 172561 AGAAAGAGAA AGGAGAATAG TGAATACCTC TTCTGCAGAG AGGGGTGCCT AAGTGGGACT
 172621 TCCCTGGCTA ATAACGTCTT GCTAGAGACC CAACCAGGAG GATAATGGAA GCAATCAAGG
 172681 CAACCAGAAC AACCAGAAGA ACCAGTTTAT CCTTTTTGTG CCCTCTCCCT AAACGAGGG
 172741 AATAAGAATT GGAAAGAAGG CTGCAGAGCA GAGGGTTTGC TCCTGAGGAG CAGTTATTTT
 172801 TATGGGATCA GAGCTCCTGC AGAACTGGGG AGTTTACTTT TACTATCTCT TCTCCAGGAC
 172861 AGGACCTATC TCAAGAGACA TGTTCAGAGT GATTGCAACA TAAAGAGTTT GCAGACCCAA
 172921 GGAGGTAGGG AAGGCAGAAA GAAGATGGGG GAGGCCAGGG ATAGGCAACA GAGGAGTGAC
 172981 CAGGAGCGAA AAAGCCTGCC TCTTCTGAGA ACCTAGCTGG GCTCTCCCTG TACCCCGAT
 173041 CCCTCCCCC CGCCCGCCCC CACACCCCTA CTCCTGGGAG CTCCTCTAGG ACAGGGTCAG
 173101 AGTCAGGAGG AAGTTTGAAG AGTGCCTAGA ATAAAAACA GTAATTTAAC TACAATTACC
 173161 GGGTAGGCTG TTTTCTCTC ACAATTTGAT CAGTCTCTG AAGCCACACA GAATTTCTTC
 173221 TGAAGACGTG TATTCCTTGG CAGGCTATTT CCTCCAGTGA TACACCAGGC CCCTCTCTGC
 173281 TGGGGTCACT GCTCTTCTGG GGAGATGGGG CTCCCTCCT TCCAAGGCTC CAGGGTTCCCT
 173341 GTCCTGGGCC CCACTCATCT AAGTTCTGAA TCTTCTGAGA TTTGGTGTA AGTCTGGTGA
 173401 AAGAAAGAGC AGGAAAGAGG TGAGAGCTGT AAAACAAAGA AAGTCTGAC CATTTTCAGA
 173461 GTTGGAGGGG CCCTGCTGTC ACGAAATATA TTCCCAACC CACTTGCCAT CAGTACACAC
 173521 TCACATATCC ACTGAGAAAA CCTTAGCCTG GACCTTTTCC GTAACCTTCA CTGCTCAGAC
 173581 ACTTACATAT TCGCTGCTAG TCCCCTCTGT TGCTGCCACT TCCTGGGTCA GGAAGTTAAC
 173641 TCAGACCGGA TTAACTGAG AAGTGAAACT ACTGTGGGAG GCGGGGCTCA TAAGATTTAG
 173701 GAGAAACTA GTGACGTTGT TCATATCATT TGCACTCCGC CTCTCCGGTA AAGGAGGGGG
 173761 AAACGTAGGA AGAAAATATC CTTCTTTTAC AGCAATAAAA AGAAGGAACC AATTAATAAC
 173821 CCTGTAAACT ATCATGTGAC CCCAACACAG AGTATCTAAA AACAGGAAGC CTGCAGAGGT
 173881 TCAGTTCACA GACTCTGATT TGAGATCTTT CTACTTTTGC CACCAACTCC CTTGGGAGTC
 173941 CTTAAGCCTT CTTAGCTGAT GTTACTTCTT TTGCTATTTA TGGGTTGCTT GTGGTTCTAT
 174001 AACTGCTCTG AAGGGTGTGG TGGAAAAAGG GGTGGTAACA GCAGTAGGAC TCATTGGCAT
 174061 CACAAAATTC ATCTGAGTCA GCTTTCTATT CTCTCTGTG CCGTCTGTG TCTTGTTTTT
 174121 CTCCTTGCTG TCCTTCTGCA GGACTCAGAT CTTCTTCAAT AGCGAGGGTC AGCCAGGATA
 174181 GAAAATGGGA GTCAGTAGTG GCCCAGCAGT GAGTGCCCC AGCTTAGAGC TGTGTGGGAT
 174241 CCCTGGGACC ATCACTCTGC TTTGTGCTTT GTGGAGAAAA GGCTGTGGGG TCCAGGGTCA
 174301 AGTCCTTAAT GACTTAGCTC CAGCTTCTCC ACTTCAAAAT GAAAGGAAAA GTACTATCAC
 174361 CACCCGTTAG AATTATTATT TCATGGGGAA AAAAGATGGA TTAATATCTC ACAATAAGAG
 174421 CTTGTACAT TTATAAGTCT CAGGTGTAAG AGGCATTTAT GATAACAACA TAATAAATGC
 174481 TGGCTTAAGT AGATGCAGTG GTCCAAGGGA ACCAGTAAGG GGAGCTCAGG ACACAGGTGG
 174541 GAGGAGAAAT TAAACTTGAA TTCTGGGAGC CACTGGCCTG TCTGGGCCCC TGGCCTGCCT
 174601 GCTGACCCTG ATAGCCAATG GAACATGGAG TTTGGCCAG CTGCAATCCC TCTGTCCAA
 174661 CTAATCAAAA TAAAGGCAAG ATTGGGAAAC ACGTTCCTTT CTTCTATAC CAAGCAGAAG
 174721 ACTCTTCAGC ACTGCACCCT CTTGGGTGCT CACAGAGCCT TCTGTTGTTT TGCCACCTAC
 174781 GATTATCAT GGCCTGGCAT GATGGTTGCA GACCCCATGC ATAGCATGGG ACATTCTACT
 174841 CCTGAGGCAA CCAGCACACA GAGAGAGGAG AAAGAATGAG CCCCTGAATC CTTGGTCCCA
 174901 CGATGAGTCC TTGCAGATAT CTACAACCTT CATTGTTGTG GATGTGACTC TGTACCCAGG

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174961 CATGGCTCAT TCCAGATCTG TCCTATTGTC AGAGGTGTTT AAACCAGAAT GACTCCATT
175021 TGAATGGGGG CTAGGTAAAA TAAGGCTGAG ACCTACTGGG CTGCATTCCC AGGAAGTTAG
175081 GCATTGTAAG TCACAGGATG AAATAGGCAG TTGGCACAAG ACACAGGTCA TAAAGATCTT
175141 GCTGATAAAA CAGGTTGCAG TAAAGAAGCT GACCAAAACC CACCAAAATC AAGATGGCAA
175201 CAAGAGTGGC CTCTAGTCAT TCTCATTGCT CATTATACAC GAATTATAAT GTGTTAGCAA
175261 GTTAGAAGGC ATTCCCACCA GCTCCATAGT GGTTTATAAA TACCATGGCG ATGTCAGGAA
175321 GCTACCCTAT ATAGTCTAAA AAGGGGAGGA ACGCTTGGTT CTGGGAATTG CCCACATCTT
175381 TCCCAGAAAA CATATGAATA ATCCACTCCT TGTTTAGTAC ATAATCAAGA AATAACTGTA
175441 AGTATCTGTA TTAGTCCATT TTCACACTGC TGATCCAGAC ATACCTGAGA CTGAGTAATT
175501 TATACCAGGA AAAAATGTTT TAGTCTCTTA CAGTCCCACG TGTCTGGGGA GACCTCACAA
175561 CCACAGCAGA AGGCAAGGAG GAGCAAGTCA GGTCTTACAT GGATGCGAGC AGGCAAGAG
175621 CTTGTGCAGG GAAATTCCTT CCTATAAAAC CATCAGGTCT CATGAAACTT ATTGACTATC
175681 ATGAGAACAG CAGTATAAAT TACTCAGGGA AAGACCTGCC CCCATGATTC AATTACCTCC
175741 CACCAGGTCC CTCCCACAAT ATGTGGGAAT TTAAGATGAG AGTTAGGTGG GGACACAGCC
175801 AAACCATATC AGTATCCTTA GTCCAGAAGC TGATGCTCTG CCTGTAGAGT AGCCATTCTT
175861 TTATTCTTTT ACTTCTTTGC TTTCACTTTA CTGTGTAGAC TTGCCCCAAA TTCTTTCTCA
175921 CACGAGATCT AAGAACCTTC TCTTAGGGTC TGGGTTGGGA CCCCTTTTCT GGTAACACTA
175981 TCAAAGGATC AGGAAAAGGA AGCTAGTGAA TGCTAAAAAG GAAACAACT ACCATTACCA
176041 ATAATAACAG CAAGACAAAA GCAAAACGGA TTGTGACAGC TGTCCCATCT CACACCTGTT
176101 TCCCATTGCA GGAAGGAGGG GCTGGTTCAT GCACAGAGTG GCCAATATTA GAAGCAGAGA
176161 GGGGGTGCAG ATGAGACTTC AGGAATATGT TGACAAAGGC AGGCCTAGGG AGAAATCAAC
176221 CTGAACTATC CCCAAGGAGG AATGCATTAT CTCTAATATG TAAAGTTAGG CTTGATCCTG
176281 TGATTATGGG ATATAGGAGT CCAAAGACTC ACAATGGGAA GTAGGTCACT AGAGTCTCCT
176341 TCAGAAGCTC TGTACTGTGT GTTCCCACTG TGGGCAAGAG TCAGCACTCA GCTATTCCTA
176401 GAATGCCTTT CCTCAACTCC TTCAGATTTT GCCTCTCAAC TAACCCTATC CTGACCACTT
176461 GTTAGCAAGT GTACCCCTCT CTCCTCCCA AACATTTTCA AATCTATTTT GTTCCCATGG
176521 CACTTATCAC TGAATATTTT ACTAATTTAT TTTGTTTAGT GTTGCTTCC CTCATGAGAA
176581 TGCAAAGGGA TGGATTTTTT TCAATATTGT TCACTGATGA ATCCCAGTAA CTAGAATATT
176641 TCTAAGCATA GTGATGTGCA TTAATCAAAA GAGTAACTTT CTGAATTGCA GTAAACACAC
176701 ATCACAAGAG GTGTGTGCAC ATATGTGCAT GATGCACGTA GTGTGGTGTG GGTGTGTGT
176761 GGGGTATGTG GTACTGTGTG TGCTGTGTGT GGTATGTGAT ACATAGTTTG TGTTAGTGTG
176821 ATGCATGTGA TGTGGTATGT GTGTGCGTGT CCATACATAT TAGGGGTGGC GGGGATGTTA
176881 ATATGTCAAA TGGTACTAGA AAGTATCAGA ACTCATGGTG CTTACTGGTT TCCCAGAGAG
176941 CTGCTTCTCT CCCACCTGTA GGATATACTG ATGGTTTGGA CAGAGAAGAA ATAAAAAGAA
177001 GGCTGTGACC TACTGGGCTG AGGAAATAAA AACGAAAGTA AAAGAAGAGC TGGGAAAAGA
177061 GAGTGGAGGG GCCAAGGGAA ATTTCCCCTT TGGCTTCTGG GGAACTTTG CTGAAAAATC
177121 AACTCACAAA TTTATTAACA TGTACACAGG GAGAACCATA GAATGATTAT CCACTTCCCA
177181 AGAGGGCTTA AAAGCTTATA TATTATCCTG GCAAAACAGA TTATGGGAGG GGAAGAAGAG
177241 AAACCTCTGT GATGGGATTA CTGTTGCGGA TTTTGTCTCC TTCGCTCAGC TAGGTCCGGG
177301 TTTTGTCTC ACAGCCAGGA AGAATTAGGC ATGCAGCCAT CAAAGAATGA GTGGAGTAGA
177361 ATTTATTAAG TGAAAGGAAA GCTCTCAGCA AAGACAAGGG TCCTGAAAGC AGATTCTGG
177421 TTTGCTCTTC ACAGTTGAAT ACTAGGGCTT AAGACTCAAA TTCCTGACAA CTCCACCCTG
177481 TCCTACCAGT GCATGCAGGC CTTTAGACTG AGCTACTCCA TATTGATTAA TTTCTGAAC
177541 TGCGCATGTG TTAAGGAAAG GAATCATCCA CTGCAGGCAT GTTTAGGCAA GCCCCCTGTG
177601 CAAGTTCCCT TATCTGCACA AAACATCCGG TGTAAGCACT TGTGGGCGAG GTCAGAGGTT
177661 CTCTGGGTAC CATTCCCTTA CTGTCTGCCT AAAGCAAGCT GGCCAACTCC TTTCATTACT
177721 AGGGAGAGTA AGTAGATCAG GGAACAGAGA TTAACCTGAA CATTATCTTG TGAAAGTCCG
177781 TTCGGGCATG GTTACATTCT TGGTCTTACA GGAAGGGTAA ATAAAAATAA TTGCTCTTTT
177841 TGGTGGGTCT GGATCTTAGG TAGATAAAGA AACTTTAATT CCACGATGTG TTTTGGTAGG
177901 GATAGTTGGT GGCAGGGATG TCAGAGAGAC TTTGAGGCTT CTTGAGTTCA ATATGACCAA
177961 GGGCCATATA TTAGGGTATC AATTTCTGAG CCCCAACAAG AGCTTAGGAG AGATGTGATA
178021 GCATCACAGT GTGAAAGCAA TTTTGTCTCT GTTTTGTAGG ACAGGCTCTT GCACTGTCAC
178081 CCTGGCTGAA GTACAATGGT ACGATCACAG CTCCTGTAA TCTTGAAC TGTTCAAATG
178141 ATCCTCCCAT CTAAGCATTT CAAAGTGTG GATTACAGG CATGAGCCAC GGTACCCAGC

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178201 CTGAAACTGC ACCCACTTTC TGATAAACTT TTCAAATGAC TAAAGGGGAG AGAGTAAGCA
178261 CTACTCAGAG GTAGGAAGAA AGGACACAGG ATTATAGGAT TAAAACAACA ACCACCAAAA
178321 AAAACCAGAC CGGTGTGGTG GCTCACACCT GTAATCACAG CACTTGGGGA GGCTGAGGTG
178381 GGGGGAGTCA CTGGAGGCCA GGAGTTCGAG ACCAGCCTGG CCAACATAGC AAGACGCTGT
178441 CTCTATTAAA AAAAAAAAAAT ACCTGCCTTG AGCTAATCAG AATCATGGAC CCTGACAAAG
178501 GATGTCCCAA AGTAAGTCTT AGCATTTTTT TTTTTTTTTT GAGACAGTCT CGCTGTGTTG
178561 CCCAGGCTGA AGTTCAGTGG CGTGATCTCG GCTCACTGCA ACAGCTGCCT CCCAGGCTCA
178621 AGCAATTCTC CCTGCCTTCA GCCTCCCAAG TAGCTGGGAT TACAGATGCC CACCACCACG
178681 CCTGGCTAAT TTTTGTTTTT TTTAATAGAG ATGGGGTTTT GCCATGTAA CCAGGCTGGT
178741 CTTGAACCTC TGACCTCAAG TGATCTGCCC ACCTTGGCCC CTCCATAGTG CTGGGATTAC
178801 AGGCGTGAGT CACTGCACCC GGCAAAGTCT TAGCATTCTT TACAAACAGT TTGTACCCGT
178861 ATCTCTAAAA GGGAGTAGTG AATTTTCAACC CAAAATATGG CTTCTGTATA TAATGAGTAT
178921 TTTGAATGAA AAACCTCTAG AGATCAACAG AACTAAAGA GACTTTTCCC TAGGTACATA
178981 AAAATAGGAT GGCCCCACCA GCGAGAACAA TTGTTCTTTT CTCCCTCCCT GTTATCTCAT
179041 TGTGCATTAT AGGAAAGACC AAGAATGTAA CCACACCTGA ACAGACCCTT TTATAAGATA
179101 ATCAGTCTCT AAGCATCATT TAAATCCAA GGAGAACTAT TTACAAATT ATCTGTTCTT
179161 TGATCCAATT AGTCTCTCCT GGTAGTTACA TATTGCCCCT CAACAGAATT CCTCTTCTTC
179221 TGTTTCCCAT AACCTATTTT GCAAGGATCA AGCCCCGTGT ACTTCTTCAA CTTCAAGTTG
179281 GCATATAAGC TTCTAAATTC CACTGGGATA TTGGTACTAT GTGCATGAGG AGAACCACAG
179341 AGTAAATTAA TTGTAAAGCC TTTTATCTTA TGAATCTGCC TTTTTTTGTG TTCATTTTTT
179401 AGCAAAACTT CCAAGGGCAA AGGTATAAAA CAAAATAAA ATTCTAAAGC CCCCCAACCA
179461 TCTGAATAGA CTTTCTCTTC AGTCAGCCTT CTTAAATGT AACCTGAAAG ACTGGCTCAG
179521 GCCATTAAGG GAAGTGGGGG TTGAACATGC CTCATTATTC CTCTCTGGCA TTAACATCAA
179581 CACAGCTTTT AAGTCTGATA AGAACATTT TACAACCTAT TCTCTCTGAA GCCTCTAGC
179641 TAAAAACTTC ATCCCATAGT ACAACTTTGG TCTTCACAAC CTGTTATCAC AACCTAGTGC
179701 TCCTTTCTAT TAATCCCAA TCTTTATACA AACTCAACCA ATTGTCATCA CCTCCACCCC
179761 ACTCCTCCGC TGCTTCCAGT TGTCGCCCT CTCTGGACCA AACCAGTGTA CATTTCTTAA
179821 ACGTATTTGA TTGATGTCCC ATGCCCTCCT AAAATGTATA AAGCCAAGGT GCATCCCAAC
179881 CACCTTGAGC GCTTGTCTC AGGACCTCCT GAGGGCTGTG TCATGGGCCA TGGTCACTCA
179941 AATTTGGCTC AGAATAAATC TCTTCAAATG TTTTACAGAG TTTGGCTCTT GTCATGACAC
180001 AGATGACTGC TTTCACTGAAG CTTGCTCTGG AAGTGAGTGG GGGTTTGTGA AGGATAATTT
180061 TCCCCGGATA GCCCCAGAAG CAGCTAGTAA TAATACACTT AAAGGTAGCT AAAATGCATT
180121 GAACACTTGT TTTGTGCCAG ACCTATGTCA ACATTTGCTT TGTGCCAGG TTTATGCCAGT
180181 ACTCCTGATT TGTTAATACA TTCTAAATAA AAATTCTGGA GTTTCAAATA TAATACTGA
180241 AAAACAGAAA ATAAATAAAA ATATATAATA ACTGAAATAA AAATTTACTA AGGCTGGGGA
180301 TGGTGGCTCA CTCACACCTG TAATCCTGTT ACCGGAAAGG GGTCCGTCCA GATCCAGACC
180361 CCAAGAGAGG GTTCTTGGAT CTCACACAAG AAAGAATTCTG GGCGAGTCTG TAAAGTGAAA
180421 GCAAGTTTAT TAAGAAAGTA GAGGAATAAA AGAACGGCTA CTCCATAGGC AGAGCAGCTC
180481 TGAGGGCTGC TGGTCCGCCA TTTTATGTT TATTTCTTGA TTATGTGCTA AACAAGGGGT
180541 GGATAATTCA TGCCTCCATT TTTTAGACCA TATAAAGTAA CTTCTGACG TTGCCATGGC
180601 ATTCGTAAAC TGTCGTGGCG CTGGTATGAG CATAGCAGTG AGGACGACCA GAGGTCACTC
180661 TCATCGCCAT CTTGGATTTG GTGGGGAGCA GTGAGGATGA CCAGAGGTCA CTCTCATCGC
180721 CATCTTGGAT TTGGTGGGGT TTAGCCAGCT TCTTTACTTT TTTCTTTTTT TTTTTTTTTT
180781 TTTTTTTTTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC AGCTCACTGA AACCTCCAAT
180841 TTCTGAGTTC AAGCGATTCT CGTGCCTCAG CCTCCCAAGT AGCTGGGATT ACAGGCATGT
180901 GCCACCACAC CCAGCTAATT TTTTATATTT TTAATAGAGA CCGGGTTTCG CCATGTTGCC
180961 TACGCTGATC TCCAACCTCT GCGCTCAAG CATCCAGCCA CCTTAGCCTC CCAAAGTGCT
181021 GGGCTTATAG GTGTGAGCCA CCCCACCTGG CCTAGCCGSC TTCTTTACTG CAACCTGTTT
181081 TATCAGCAAG GTCTTTATGA CCTGTATTTT GTGCCCCACTG CCTGCCTCAT CCTGTGGCTT
181141 ACAATGCCTA ACTTACAGGG AATGCAGCCC AGCAGGACTC AGCCTTATTT CACCCAGCTC
181201 CTATTCAGA TGGAGTCTTT CTTGTTCAA TACCTCTGAC AAGCCCAACA CTTTGGGAGG
181261 ATGACACAGG AGGATTGCTT TAGCCTAGGA GCTCAAGACC AGCCTGGGCA ACACAGTGAG
181321 ACCCATCTC TAAAAAATAA AAATACAAA AAATTAGCCA GGCATGATGG TGTGTGCCTG
181381 TAGTCCCTGC TACTCAGGAG GCTGAAGTGG GAAGATGGCT TCAGCCAGG AATTCAAGGC

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181441	TGCATTGTCA	GAGGCATTTG	AACCAGAATG	ACTCTATCTT	GAATAGGGGC	TGGATAAAAT
181501	AAGGCTGAGA	CCTGCTAGGC	TGCATTTCCA	GTATGTTAGG	CATTCTTAGT	CACAGGATGA
181561	GATAGGAAGT	CAGCACAAGG	TACACATCAC	AAAGACCTTG	CTGATAAAAT	AGGTTGTGGT
181621	AAAGAAGTTG	GCCAAAACCC	ATCAAAACCA	ACATGGCCAC	CAAAGGGACC	TCTGGTTGTC
181681	TTCACTGCTC	ATTATATGTT	AATTATAATG	TATTAACATG	CTAAAAGACA	CTCCTACCAG
181741	CATCATGACA	GCTTACAAAT	ACTGCGGCAA	TATCTGGACT	TTACCTTATA	TGGTCTAAAA
181801	GGTGGAGGAA	CCCTCAATTT	TGGGAATTGT	CCACCCCTTT	TTTGAATGC	TCATGAATAA
181861	TCCACCCCTT	GTTTAGCACA	TAATCCAGAA	ATAACTATAA	GTATGCTTAT	TTGAGCAGAC
181921	CACGCTGCTG	TTCTGCCTAC	AGAGTAGCCA	TTCTTTTATT	TCCTTACTTT	CTTAATAAAC
181981	CTGCTTTTAC	TTTACTGTAT	GGACTTGCCC	TAAATTCTTT	CTTGTGTGAG	ATCCAAGAAC
182041	CCTCTCTTGG	GGTCTGGATC	AAGACCCCTT	TCTGGTAACA	TCCTTCTGGT	GACCACGAAG
182101	GGACAATACT	GAGGAGACTC	TGAAGCCAAA	GGAAACAGAC	TACAGCACCA	ACTGGCTGAC
182161	TTTGGGTAA	TGGTGGAGTC	CCCGGGTAAA	GGATAGGATT	GGGTTAGAGG	TGCAACTTAG
182221	GGGAGATAGG	GTCTCTCCTA	AGACAGAGAG	CGTTTCAGTC	CGCTCTTAAT	AAAGGGCAAG
182281	AATGCTTGAC	CGAACTTGGG	TTTGAGACCC	AACTTAGGAA	GGCTACAGTC	CTTAAGATTT
182341	AAGGGGTTAG	AGGCCCCCTC	CAGTAAAGTC	TCTCTTGGTT	AAAAACGGAT	TTAGCATTAG
182401	GGGATGTTAA	CTGCTATTCT	GTTTGTATTA	ATCTTCCCTG	TGCTCTTTGC	TGACAGCTAT
182461	GGGTGACAGG	ATTAGGCATG	TACAGGATCA	CGGGACATTG	GGAACTTTTC	TTCTCTCCAA
182521	AAGGGGAAGC	TTGACAGCTG	ATAGGACTGT	TGGAAAAGAT	CCCTTTGCTA	TGACAAGCAG
182581	CCGCTGAAC	TTTTGATTCA	GTGTTGCTGC	AATGGGTGGG	TCTTTCTCTG	GCCCTGTGTA
182641	ACTCCTCACC	TTCCCCACCT	CACCACAGGC	AATGCTTTTC	TCCCTTTCTC	TCTTTTCTCT
182701	TTTCTGTCTT	TTCTGTTACT	TGAGACAACC	ATCTTGCCCA	GAGACCATAT	GTTGAAACTC
182761	CTGGTCAGAA	GTTTGATTAA	AGATGAAAGG	GCCTATCTGG	GGGCAAGTTT	GAGCCTTCCC
182821	AGTTAGATAT	TGGGTGCTAA	GTGGAGTGGC	CAATGTCTAT	GTTTGTGCAC	ATGTATATTG
182881	CTCTGGCTGA	AATGGAAGAA	GTTAATTTGG	TTACTTTATG	TGGCCATTGG	GCAGCATCTT
182941	ACAAAAGTGA	GAGACATTTA	TTTGCCTGTG	GTTCCATGAA	ACAGAAAAAA	GTTGGTTTTT
183001	CCTTGTGTCG	TAGCTTGGAC	CCAAGGGCTT	TGCAGTGAGC	AAGGTTGCTA	CGCTGCTCA
183061	GTGAAAGAGA	ACCCAGAAAC	CTGGCATGCC	AGCAAAAGGG	TAAAGATTTT	TTACCTGCTA
183121	GGCTTCTGGC	CTCTCTCTCT	TAGTGAAGAA	TGAATGAATG	GTAAAAATCA	CTGTTTATCA
183181	CCTCTGTAAA	GTTTTGATTA	ATGGGAACAA	GGATTGTGTT	GGCTAGTCTT	AAGCTGTAAT
183241	GAATCTGGTA	TACTTTGTGA	TATCAATTTG	TCTTTCTGTA	TTACTCTGTC	ATAAGAGGGA
183301	ATATGGTAGG	ATAGAACATG	GGCTTAGGAC	TCCATAAGCC	TGCTGTTCAA	GCCAGCCCAG
183361	TAAACTGGTC	CGTTGCAAAG	TTTATTACAG	GTCCCTGGAA	AAAAAAAAAA	TTAAAAACTG
183421	GATGAAGTTT	CCTTCTCATC	TTGTTTTATG	TCCTTTGGAG	CTTCACCTTG	TAACCACGTG
183481	CGGCTACTTT	CTCTTGGTCT	CTGCCATCCA	GGGAACAGGA	ATTTTGGGGT	TTATGTAATA
183541	GTTAACTCTA	AAAATTATCT	CAAGCCATTG	CAAGCTCAAA	ATTGGCTGCT	CTGGACCCCT
183601	TCTGGGAAGG	GCAATGGAAA	CTAACCAGTG	TTGTAGCTCA	GCAGCTAAGG	ATTTGTCAAT
183661	TTATAATGGC	GGCCAAGGTT	CAATCCTGGC	TTAGGGAATG	AGTACTTTCT	GATTGATATC
183721	TGTGTGACCT	TTACCATTG	TTGATTCTGT	TCTCTTCCCC	TCCACACACT	GTCTTGAGTT
183781	TTCTCTCTC	TGAGAACCTG	GGAGATTATC	TTTGGTAAAG	TTCAAAAGCC	AGAAATAATG
183841	GCCGTGTGGG	ATGGCTAAAG	TTGAGTAATA	AGAAACTTAA	AAGGACTCCT	TTTTTTTTTG
183901	CTTTAGAGTG	CTATGGTTTA	TGGTTAAAG	CTTAATTAAA	AGTGGATATT	CAATCTCTAA
183961	AAGCCTGGGA	CTCCTTGGGA	AAAGCAGAGG	AGGCACCACA	GACCCCATTT	TGGGAAAACC
184021	TCTGTTTTTC	TCATGAAACC	CCAGGAACCTG	GAAGTGGATA	GATCCTTCGC	AAAATCTAAG
184081	GCTCTGTTTG	GCTTTGCATT	ATGTTATCTG	ATGTTTTTGA	CTTTTGGGGG	TATCAGAAAT
184141	TACTTTGTCAT	TATGAGGGAG	ATCTGGTGTG	TAATAACCAG	GTAGGAAATA	TACTTCTGGG
184201	GATAGCTAAA	GGCAAATATA	GGTGAATACT	TGGCTATTG	CACCTTTTGA	TCACAAGAAG
184261	CATTCTCTTG	ACTACCTAGA	AGGTATGGAA	ATGTCTCCAT	CCCCACCAG	AGATAAGATT
184321	CCCAGGGGAG	ATGGCTGATC	CCCCAAAAGA	GGGCTGATTC	CCTCTTTTGG	GATCCAGGAT
184381	CTGGTATAAA	AATGGGACCC	TGGCCAGGCA	CAGTGGCTCA	CGCCTGTAAT	CTCAACACTT
184441	TGGGAAGCCT	CAGAGTTATG	AATGTCTCAC	CATACTGACA	CTTTGTGACT	GAGCTCCTCT
184501	CTACCCTGGA	CACAAGAGAC	CCTAATAATT	AGACAGGAAT	ATCATTGCCC	CTATTTAGTC
184561	TGAAGAAGTT	ATAGAAGATG	GATCTTTATC	CCACTGCAAT	CCTTAGGATT	AAGGGTCCCC
184621	TGGTAAAAGG	GAGTGGGAAA	ATATGTCAGA	GGCATTTGAA	TCAGAGTGAC	TCCATCTTGA

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184681 ATAGGGGCTG GGTAATAA GGCTGAGGCC TGCTGGGTTA GGTTAGGCAT TCTAACCAGG
 184741 AGTTTAGTCA CAGGATGAGA TAGAAGGTTG CACAAGGTAC CCGTCACAAA GACCTTGCTG
 184801 ATAAAATAGG TAACGGTAAA GAAGCCAGCT AAAGCCCACC AAAACCAACA TGGCCACAAA
 184861 AGTGACCTCT TGTCATCCTC ACTGCTCATA TACACTAATT ATACTGCATT AGCATGCTAC
 184921 AAGACACTCC CACCAGTGCC ACGACAGTTT ACAAATACCA TGACAACATC TGGACGTTAC
 184981 CTTATATGGT CTAAAACGGG GAAGAACCCT TAGTTCTGGG AATTGTCCAC CTCTTTCCTG
 185041 AAAAATTCTT GAATAATCCA TTAGTTTAGC ACATAATCCA GAAATAACTA TACGTCTGCT
 185101 TATTTGAGCA GTCCATACTG CTGCTCTGCC TATGGAGTAG CCATTCTTTT CTTTTATTTT
 185161 TATTTTTTAG ATAAAGACTC GCTCTGTCAC TCAGGCTGGA GTCTGGAGTG CAGTGACGTG
 185221 TTTTGGCTCA CTGCAACCTT CACCTCCCGG GTTCAAGCAA TTCTCCTGCC TCAGCCTCCC
 185281 AACTAGCTGG GACCACAGGT GGGTGCCACC ATGCCTGGCT AATTTTTGTA TTATTAGTAG
 185341 AGATGGGGTT TCGCCATGTT GGCCAGGCTG GTCTCGAACT CCTGGCCTCA AGCGATCCAC
 185401 TTGCCTTGGC CTCCCAAAGT GCTAAGATTA CAGGCATTAC CCACTATGCA TGACCCATTTC
 185461 TTTTATTTCT TAACTTTTTT TTGTTTTTTT GAGACAGAGT CTCCTCTGT CACCCAGGCT
 185521 AGAGGCTGGA GTGCAGTGGT GCGATCTTGG TTCCTGAGG CTGGGACTAC AGACATGTGC CACTACACCC
 185581 GCGATTCTTC TGCCCTCAGTC TCCTGAGGAG CTGGGACTAC AGACATGTGC CACTACACCC
 185641 AGCTAATTTT GTATTTTTAG TAGAGACAGT GTCTTGCCAT GTTTGTGAG CTTGTCTCGA
 185701 ACTCCTAACC TCAAGTGGTC TGCCCTGCCCT AGCCTCCCAA AGTGCTGTGA TTACAGGCAT
 185761 AAATCACTGC GCTCGGCCCT TCTTTACTTT CTTAATAAAC TTGTTTTTAC TTTACTGTAT
 185821 GGACTAGCCC CAAATTCCTT CTTGTGTGAG TTCCAATAAC CCTTTTGTGT GTGAAAGAAT
 185881 TTATGGCTGC TGTTCAAGCT GGAGCAAGCT GGAGCTCATG CTGCTGCTCA GACTGGAGCA
 185941 TGCGTGATCT GTGATCCAG TAAGAGGATC ATGGTCACTC CAGCCTGAAC GACAGCATGA
 186001 TATCTCATCT GTAAGAAAAA AAAAATTACT AGAGGGCTTT AACAGCAAAT TTGAGCAGCA
 186061 AAAAGAAAGTA ATCAGTGAAC TCAAAGATAG GTCAATTGAA ATGATCTACT CTGAAAAACA
 186121 GAAAGAAGAC AGAATGAAGA AAAAGAAATA GAGCCTTAGA GACAGGGGAT ACCATCAAGC
 186181 ATACTAATAT ATGCATAATG GGACTCCTAG AAGGAGAAAA GTGAGAGGAG AGGGAGAGAG
 186241 AATGTTTGA GAAATAATTT CTCAAAGCTT CCCATGTTTG GCAAAAAAAC ATTAACCTGC
 186301 ATACATATTT TAGGAGCTCA ATGAATTCCA AGTAGGATAC ACTCAAAGAG ATCCATACCT
 186361 AGACACATCA TAATCAGATT ATCAAAAGAT GAAGAAGATG AATCTTGAGA GCAGAAAGAA
 186421 AGGAACAATT CATCACATAC AAATAGTACT CAAAAGATGT CTGGAGTAGG TATACTAATA
 186481 TCAGACAAAA TAACTTTAA GATAAGCATT GTTATAATAA ATAAAGAAAG GTATTTTGTGTA
 186541 ATGATAAAG TGTCATTCA TCAAGAAAAC ATAACATTAT AAACATACAT GCACCTAACA
 186601 ACAGAGCCCT AATATTCATG AAACAAAAT GACAGAATTG AAGGGAGAAA TAGAAAAATTC
 186661 GACAATAATA GTTGGAGACA TCAATACCTC ACTAGTTAGA CAAGATCAAC AAAAAATAG
 186721 AAGACTTAAC ACTTGAAAAC ACCTAACCTG ACCCTAACAT AAATCTATAG GTCACTACAC
 186781 CCCAAAACAG CAGAATAAAC ATCCTTCTGA AGCTCACATG AAACATTTT CAGGATAGAC
 186841 TGTATATTAC TTCATGAAAT AAGTCTCAAT AAATGTAAAA GGACTATAAT AATAGAGTAT
 186901 ATATTCTCTG ACCAAAGTGG AATGAAGATA GAAATCAATA ACTAGGCTGG GCGTGATGGC
 186961 TCACGCCTGT AATCCCAGCA CTTTGGGAGG CCAAGGCGGA CAGATCACGA GGTCAGGAGT
 187021 TTGAGACCAG CCTGACCAAC ATGGTGAAAC CCTGTCTCTA CTAACAAAAT ACAAAAAATTA
 187081 GCCAGGCCTG GTGGCATCTG CCTGTAGTCC CAGCTACTCG GGACACTGAG GCAGGAGAAT
 187141 CACTTGAACC CAGGAGGCAG AGATTGCAAT GAGCTGAGAT CGCGCCACTG CATTCAGGCC
 187201 TGGGAGACAG AGCGAGACTC CATCTCAAAA TTAACAAAAA AAAAGAAACT AGAAAAATAA
 187261 GAACAAATCA AACCCAAAGC AAGCAAGAGG AAAATGAAAA ATTTCAAAGC AGCCAAGAAC
 187321 AAAAGGCACA TTATGTACAG AAGAACAAGT GTATAGATCA CATATTTCTC ATAGACACAA
 187381 TATAAGCAAA AAGACAGTGG AGCAAAATTT TTTAGATTAA TGAAAGACCT ACAATTCTGT
 187441 ACCAAGCAAA AAAACTCCCC CCAAATGAGG GTGAAATAAG ACAATTTAAT ACAGAGAAAA
 187501 GAGGAAGGAA TTTATCTAGT CATATGTGAG AGTTTTATGA TACATTTTGT ACTGTATATG
 187561 TGGATGTTTT CTATTTTCAAT TAAAAATCA ACCGTGCAAT TAAATGGTAG ATTGTCTTGC
 187621 TTCTTTTTGA TTGACACAGT CATTAACTAA AATATTGTAG TATTTTTTTA TCTCCCTGCC
 187681 TAAAGGCAAT AAACATCTAA TCAGCAGACT AGAACAATAA AAAATATTTT TTAAGAGTCC
 187741 TTTAGGCAGA ATGATAAAAG TCCCTTAGGC ATATTGAAAT TCCTATTTAT ACAAAGGAAT
 187801 AAACAGTACT AGAAATTGTA ACTATGTGAG TAAACAGATA ATATTTTTTC TCCATAAAAT
 187861 GTGGTTGACT ATTTTCACAA AAATAGTTAA CAATGTAATG TGTGATTTAT AGCATTTAAA

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187921 AGTAAACAG GCCGGGCACA AAGGTTTCGTG CCTGTAATCC CAGCACTTTT GGAGGCCGAG
187981 GCGTGCAGAT CACTTGAGGA CAGGAGTTCA AGACCAGCCT GGCTAACATG GCAAAACCCC
188041 ATCTCTACTA AAAATACAAA AATTAACCAG GCGTGGTGGT GCACGCCTGT AATCCCAGCT
188101 ACTCTGGAGG CTGAGGCACA AGAATCACTT GAATCCAGGA GGTGGAGGTT GCAGTGAGGC
188161 AAAATTATAC CACTGTGCTC CAGCCTAGGC AACAGAGCTA GACTCTGTCA CACACACACA
188221 CACACACAAA AGAAAAGTGT ATGACAACAA CAGTGCAAAA GAAGCGGAAA TGAAAATAAT
188281 GTTATTTTAT ATAAGTGGTA TACTTTTAGA TGAACACGA TAAATTAATG ATGTATACTA
188341 TAAACTCTAA GGCAACCACT GAAATAATGA AACGAAGAAT TATGGCTAAC AAGCCACAAA
188401 AAGAAATAAA ATAGAATGAG AAAAAATATT TAAGTTGTTT AACAGATGGG AAAAAAAGA
188461 GGAAAAAGAG AACAAAGAAC AGATGGGACA AATGGGAAAG TAATAGCAAG CTATAGACT
188521 TAACTCTACC CATATAGATT ATCACACTTA AGGTAAATGA TCTAAATACT CTAATACAAA
188581 AGCAGAGGTT GTCAGATTGA ATTAACAAAA CAGACAACAA CAAAAAAGAG CAAAAAAGA
188641 GCCACAACAT GCTGCCTACA AAAAATTCAC TTAAATATAA AGACACAAAT AGTCTAGAAC
188701 ACCATCACTT TTAACCTTAT TTAACCAAC CTCCTAAGT ATCCCTATTT ATTTATTTAT
188761 TTATTTATTT ATTTATTTAT TTATTTTGA GACAGAGTCT GACTCTGTTG CCCAGGCTGG
188821 AGTGCAGTGG CACCATCTAG GCTCACTGCA GCCTCTACCT CTCGGGTTCA AGCGATTCTC
188881 TTGCCTCAGG CCTCCCAAGT AGCTGGGACT ATAGCACATG CCACCATGCC CAGCTAATTA
188941 TTATATTTT AGTAGAGACG GGGTTTTGCC ATGTAGGCCA GGTGGTCTC AAACGCCTGA
189001 CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCCA CAGCACCAG CTCCTCTTCA
189061 TTTATCTTG CTACGCTTCC TCCAATCCAT TTTGTGCATT TGATGATTTT GCCAGTAACT
189121 TCTTTATTTT TCTGGTAAAA TTACTTATGG GTCAGTGGG ACTGGGATGT TCTTCTTCT
189181 AGAGGGGGTT TGTGTCTGCT TTTGCCAGGA AGCTGGGGTA CCACCATGCA AGTATTACTT
189241 TAAACTCAAT TCATGAATTG AGACTTTTTT TTTTTTTTTT TTTTACGC AGAGTCTTAC
189301 TCTGTCAACC AGGCTGGAGT GCAGCGGTGT GAACATGGCT CACTGCAGCC TCAACCTACT
189361 GAGCTCAAGC AATCCTTCTG CCTCACCATT CTGTATAGCT AGGACTACAG GTGTGTGCCA
189421 CCATGCCTGA CTAATTTTTT AAATGTTTTT TTTAGAGATG GGGCTCACTT TGTTGCCAG
189481 CCGGTCTCG AGCTCCTGGG CTCAAGTGAT CCTCCACCT TGGTCTCCCA AAGTGTGGG
189541 GTTACAGGCA TGAGCCTCTG TGGCTAGCCA AGACTTTTTA TTTTGTAGCC TAAATGTGTA
189601 TAAAGTTGG CTTGTGGTTA CAACTTATCA GGATTGATGA TCTCTCTCTC TCTCTCTCTC
189661 TCTGTCTCTC CCCACCTCTC TCACATCCCT TGCTCTGCTG AGAAGCAGAG CAAACATTCT
189721 AGCAGTTTCC AGAGAGTAGG ATGGGATTAC TTCTAGTTTA CTTTTATCAT CCTTTGGGAT
189781 CGCAGTATTA CTGGGAGAAC ACAAGTATCT CTTATTAGAC ATACCACCTT TGTAGAATCT
189841 GGACTTTCAT TTTAGACTTT ATTTGTTTTT TACTATAAGC AATTTAAGTT ACAGATCTCT
189901 CTACACACTG TTTAAGTTGC ATCCCATGAA TTTTGATGTG CTTTATTGTC ATTATTATAT
189961 AGTACAATGT ATTTTGTAAT TTTTGTGAT TTGTTGGAG AGATTGATTA ATTAGAATGA
190021 TGTTTTAATT CCAAATATGT GTGTTTTTTT CCTACATTTT TTATTTTTAT TGATTTCAAA
190081 TTTATTTCTA CTGTAGTCAG ATTTAATAAT TCATTTATTT TTATTATTTT CATTTTTTTA
190141 GAGACAGGGC CTTTCTGTGT TGCCCAGGTT TGTCCCAAAC TCCTAGTCCC AAGCAGTTCT
190201 CCTGCCTCAG CCACCCAAAG TGCTGGGATT ATAGGCACGA GCCACCCGTG CACAACCAAC
190261 AATTCATTTA AAAAGTGGGC AAGTGAAGT AACAGACATT TCTCAAAGA AGGCATACAA
190321 TTGGCCAACA AATATATGAA AGAATGCTCA ACATCACTGT ATTAGTCTGT TTTATGCTG
190381 CTAATAAAGA CTTAACCTGA GACTGGGGAA TTTACAAGAG AAAGAGGTTT AATGGACTTA
190441 CAGTTCACCA TGGCTGGAGA GATCTCACAA TCATGGTGGG AGGCAAGGAG GAGCAAGTCA
190501 CATCTTACAT GGATGGCAGC AGGCAAAGAG AGAGCTTGTG CAGGGAAGT CCCGTTTTTA
190561 AAACCATCAG ATCTCGTGAG ACTCATTCAC TATCATAAGA ACAGCATAGG AAAGACCCGG
190621 CCCATAATTC AGTCACCTCC CACTGGGTTT CTCCCAGGAC ACATGGGAAT TGTGGGAGTT
190681 ACAATTCAAG ATGAGATTTG GGTAGGGACA CAGCCAAACC ATATAAATAA CTAATCATCA
190741 GGGAAATGCA AATCAAAACC ACAATAAGGT ATCATCTCAC CCCAGTTAGA ATGGCTATTG
190801 TCAAAAAAAC AAAAAATAAC AAATGCTGGT GAGGATGTAC AGAAGAGGGG ACTCTTATAT
190861 CCTACTGGTG GAAATGTCAA TTAGCATAGC CATTATGCAA AATAGTATGG AAGTGAGGTA
190921 GGTTACATAG GGTGGTCACA GCCTCCCTTG AAAGGAAACA AGAACTTGT CAAATTGATG
190981 GAGAGAACAA ATCTCTTGAC ATTACACAAA CTGCATCTGG GGCTAGTGGT TAGAATATCC
191041 TCAGTCAAGG AGGTAGAAGA GCAGGAGGGA AAATCCCTAA GTTCGTGCAA GTGCAGAAAC
191101 CCACAAGCTG TGTTCTCAGG TTGACATATA CTCATTTTAA TAGTAAGAAA CACACCCTTG

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191161	GGTAGAGAAT	TAAAAATGCTA	ATAATACATG	TGATGTATGT	ACTAGCGTGT	ATGGCAATAT
191221	TGCATGCACA	TTCAAGAGAC	CACCCAAAAC	ATATTTAACA	ACAATGCCCA	TTCCCACCCC
191281	CTCATGGATA	ATCACGTAGG	ACTCCCATAA	CGGGAGTTTC	TTCAAGTGTCA	ATTGGTGCTG
191341	AAGTAGCCGA	CCCTGACTCT	GCTATCAGCG	TGTACTTTCA	CCTTGCAATA	AACCTCCTTG
191401	CCTACTTTTA	CTTTGGACTG	GCTTTCAAAT	TCTTTTGTGC	AGGGAATTCA	AGAATCTGAA
191461	CCAGCCCCACT	GACAACAGAG	GTTTCTCAGA	AACCTAAAAA	TAGATCTACC	AGATGAGGCT
191521	GAAAATCTGC	TACTGGCTAT	TTATCCAAAG	GGAAGGAAAT	CAGTATACAA	AGAGACACCT
191581	ACATCCCCAT	GTTTATTGCG	TCACTCTTCA	CAAGAGCTGA	TATATAGAGT	CAACCCTAAA
191641	TGTTTCATTAA	CAGACAAATG	GATAGAAAAT	GTGGCATATA	TACACAATGA	AATACTATTT
191701	GGCCATGAGA	AGAATGCAAT	CTTGTCATTT	GTGGCAACGT	AGATGAAACT	GGAGAACATT
191761	ATGTTAAGTA	AGATAAGCTA	GGATTGGAAA	GATAAATACT	ACATGTTATC	ACTCATATGT
191821	GAAAGTAGAG	AAAAATTTTT	AGCTCATGGA	TTAGAGAAC	AGAACTGTGG	GTACCGGAAG
191881	CTGGGAAGGG	TAGCAAGGAG	GGGAGGATAG	GGAGAGGTTG	GTTAATGGTG	ACAAAATTAC
191941	AGCTAGATTG	TAGAAATGAG	TTCCGGTGTT	CTGCACCATT	GTAGGGTGCA	TATGGTTAAC
192001	TCTCATTTAT	TGTATATTTT	CAAAAAGCTA	GAAAAGAATT	TTGAATACTC	ACAACAAAAT
192061	AAATGATAAA	TGTTTAAGGT	GATGGATATA	CTAATTACTC	TGATTTGATT	ATTACACATT
192121	GTGTACACAT	ATAAAAATAT	CACTCTTTAT	CCCGTATATA	TGTACAGTTA	TTATATGTCA
192181	ACTAAAAATA	AAAGAAAAAA	AGAATATGAT	CTATCATGAT	GTATATATCA	TGTGTACTTG
192241	AGCAAAATGT	GCATGCAGAT	ATTGTGTAT	ATGTTCTATA	AATCAATTAG	CTCAAGATAA
192301	TAGATAGGAT	TGTTCAAGATC	TTCTGTGTCT	TTACTGATAT	TTTGTCTAGT	TATTGCATCA
192361	TTACCAAAAA	AAGGGTGTTA	AACCTCTCAA	ATGTGATTGT	AGAATTGTCT	ATTTGTCTTT
192421	TTCTTTTCCA	TTTTTACTTT	ATGTATTTTG	AAACTCTGTT	ATGACATTTT	GCTATGTATT
192481	TTAAAACTTC	GTTATGTATT	TTGAAACTCT	GTTGTTAGAA	TCATACATTT	ATGATTATTA
192541	TGTTTTCTTG	ATGAAATGAC	CCTTTTCTAT	TGTCGTTGTT	TTTGTTTTTT	CTGAAATGGA
192601	GTCTCACTCT	GTTGCCCAGG	CTGGAGTACA	GTGGCACAAT	CTTGGTTCAC	TGCAACCTCC
192661	ACCTCCTGGG	TTCAAGCGAG	TCTCCTGACT	CAGCCTCCAA	GTAGCTGGGA	TTACAGGCAT
192721	GTGCCAGCAT	GCCAAACTAA	TTTTGTATTT	TTATTAGAGA	CAGAGTTTCA	CCACGTTGGC
192781	CAGGCTGGTC	TCGAACCTCT	GACCTCAGGT	GATCCGCCCA	CCTCGGCATT	TTATTTTAT
192841	TTTATTTTTT	TGAGACAGAG	TCTCACTCTG	TCACCCAGGG	TAGAATGCCG	TGGTGTGATC
192901	TTGGCTCACT	GCAACCTCCG	CCTCCTGGGT	TCAAGCAATT	CCCATGCCTC	AGCCTCCCGA
192961	GTAGCTGGGA	TTACAGGCAC	ATGCCACCAT	GACTGGCTAA	TTTTTGTATT	TTTAGTAGAG
193021	ATGGGGTTTT	TCTATGTTGG	CCAGGCTGGC	AACTGACTCC	TTTAACAATA	CAAAATATCA
193081	CTCTGTCTCT	GGTAACACTC	TCTGTCTTAA	ACTCTATTTT	AGCTGTTATT	ATTATAGCCA
193141	TTTTAGTCTT	TTTATGCTTT	CTGTTTGCA	AGTGTATATA	TTTTAATATG	TTTATTCTCA
193201	AGTTATCTGT	GTTTTTATAT	TTAAGATGTT	TCTCTTCTAG	CCAACGTGTT	TGGTCTTTCG
193261	ATTTTTAAGT	CGATTCTAAC	AATCTTTGCC	TTTCAATTGA	AATATTTTACA	CCATTAAACAT
193321	CTAACATTAA	CATTTATTTT	TCTTTCCACA	GTACACTGGC	TAGCATCTCC	CATATAATAT
193381	TGAACATAAA	GTGTGATAAC	TGACATCTTT	ATTTTCAATCC	TACTCTGAGT	GGAAAGGGCA
193441	GGGGTGGAGA	AAGCATTCAA	CAATTTGCCA	TAATTATAAT	TCTTTTTGTT	ACACTGTTTT
193501	CTTCTGCATT	AAAAAATATC	ATTACATTTT	GCATGAATTA	TTAGGAGAAA	ATATTTTCCA
193561	ATTTTCCTGG	AAAATGCCAT	AACCACGTCT	CTCAATTTTG	TTTCCATCTT	TCTTCCACAT
193621	TTTACATAAC	CTACATAAGA	GACACATTAT	CAAGTATATT	TTACATGGCT	TCTCAGTGTC
193681	TTCTCTGTCT	GCTAACAGGT	TTACCAAGAG	ATGGCACTCT	TGTATTTCTG	GTGGCTATGT
193741	CCATATCGTT	TTGCCTTTAA	GACAGCGTAA	CTACTTCTTT	CACCAGTATT	AAAGACATGT
193801	ACATTTGATC	TGGTTCCTGT	GGATGATTTT	AAATGACTCA	AGCTAATAAT	CCTAATTTTA
193861	CCTAAACACT	CCATTATTTT	AAAATGTATT	CCTTTATGCC	CACAATAAAC	ATTTATTGAC
193921	ATTAGGCTGG	ACATTAGGCT	TCTCTATGGC	AGACATTAGG	CTGGACCCTA	GCCATATATC
193981	TATTGAGGGA	AAAAAATTA	TTTTCTATAT	AAGTTTCCAG	AAAGCCAAAG	TGTGTTTTAA
194041	AAACAAAACA	AAACATTACA	TTCTAAATGC	TGTAACAAGA	TAAGAAAAAG	TGTTGAGGCT
194101	GAGAGAAGAA	CAAAGCAGCA	AGCAACTCCT	GGAAGGACCA	CTGCTGCAGA	GGTAATAACT
194161	GGTGAACCAT	GTTTTGGAGA	AGGAAAAGGT	CACCAAGAGA	AGGAGGGGGT	CCAGGGTGTT
194221	CAGAAAGATT	GCATGCATAA	AGATCAAGGG	TAATAAAAAA	AATTCCGTAT	TATGTAAATG
194281	TGAAGTTCCA	GGACCATGAG	CTTGGAGAGC	ATGAAGTACA	GGAGGAGGGT	TGGTTTCAAA
194341	TAAATCTGGG	AATGAAACAG	TGAAGCCTCT	GGCAGAACTC	ACATCTCTTT	CCTCCCTCT

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194401 TCCTTGACACA TTCCCTTTAT GGAGTAATTG CAGGGATGGG AAAAGTTCAA AACCACCACT
 194461 GAGCCTAGGA AGTGCTAGGG TAAAGTGGAG AATGAACCTG CGTGATTTGC TCATCCTAAA
 194521 CTAGGTTCTT CTAGGAGAGC CTTTCCCAT AAAATCTGCC CTCCTCGAAG GGGCCCAGAC
 194581 AGCCTAAGCT CACCTCCCAA AGACCCCTTA CTTGCTGACT GAATCTGATT CCACCCAGAC
 194641 ATGGCCTAAA ACCCTTCCAT AACTCTATAG CCAAATTCAA TTTAGACAG GCCTCATACC
 194701 AACCTTTCTT CCTCTAAGTC TGCCACCCTA GGCAATTCTC AACATTCTCT ACACACTTTG
 194761 GGGCCATAGA CGTGCTACCA AGTCTCCAGA CCTAGACCTG ATGGAGCAGT GCTGTAATGA
 194821 GACGACCACT GGCCCTTTGAA CCAGACCCTT CTCTGTGGCT CCTATGCATC TCCAACCTGT
 194881 TTTGAGCACT GCTGCCAAGA CATCTTTGGC ACTTTGTTGT GAAGTTTTAA AACTGAACTA
 194941 ATCTACAAAA CACCTAACCT TTAATAATTC ATTGTCATTT CATATCATGA AAGATAAAGA
 195001 AAGGCCAGGA AACTGTTCCA GGTAAATAGA GACTAAAGAG ATAGCAACCA AATGCAATTT
 195061 GTGATCCTGG ATTGAGGGGA AAAAGTGTG TCAGAGACAT GATTGGGACA GCTGGTAAAA
 195121 TTTGAATTTG AATTTAAAGA TAAAGTATTG AGTAATATAG GAAGATGATT ATCTGCAACT
 195181 TTCAAATGTT TCAGTAAGTA TATATATATA TAAAGAGATA TAAAGACATA TAAATAAATA
 195241 GATGGATAGG TAGAGAAAAA GCAAATGTAT AATATTAACA ATCTAGGTAA AAAGTATATG
 195301 AGTGTTCTTT GACTGTGTTT TCTGATTTT CTATATGTTT GAAATCATTT TAAAATAAGA
 195361 AGGTTTTTGG GGTTTTTTTG TTTGTTTTTT GTTTTTTAGAG ACAGCATCTT ATTCTGTCAC
 195421 CCAGGCTGTA GCTCAGTGGC CCAATCATTT CTCACTGCAG CCTCAACTTC CTGGGCTCCA
 195481 GTAATTCCTT CTACCTCAGG CTCATGAGTA GCTGGTACTT CAGGTGTGCA CCACTGCACT
 195541 CAGCTAATTT TTATTTTTTA AATTTTGTGA GAGATGGCAT GTTGCTATGT CACCCAGGCT
 195601 AGTCTCAAAC TCCTGCCCCC AAGTGATCCT CCCACTTTGG CCTCCCAAAG TGCTAGAATT
 195661 ATAGGCATGA GCCACTGCAC CCAGCCCCAA ATAAAAAAGT ATTTTATTTT AATTAACATA
 195721 TTAATTTTGA GTCAGAGTTT CACCCCTGTC ACCCAGGCTG GAGTGCATG GCATGATGTT
 195781 GGCTCACTGC AAACCTCTGCC TCCTGTGTTT AAGCGATTCT CTTGCCTCAG ACTCCTGAGT
 195841 AGCTGAGATT ACAGGTGCCT GCCACCATGC CCAGCTAATT TTTATATTTT TAGTAGAGAC
 195901 GGGGTTTCAG CATGTTGGTC AAGCTTGTCT CAAACTCCTG ACCTCAGGTG ATCCACCCAC
 195961 CTCGGCCTCC GAAAGTGTTG ATGAGCCACC ACACCCGGTC TAAAAAGTAT TTTAAAACCA
 196021 CAGTCCCACT CTACCTTGTC CTACACTACC AGGGGCTAGG ATCACCCCAT GTCTTCTAGG
 196081 CTATGAGATA GAGGAATCCA AGGAAGAAGA TAAGCTACTT GGTTCCTCTA TAGGGTCTTG
 196141 TGTGTGCTCT CATGTGCTCT CTCTCTCTCT CTCTCTCTCA CACACACACA CACACACACA
 196201 CACACACACA CACACACATG AATACCAGAG CTATCACTTT CCCAGTCTAG TACTCATCTC
 196261 ATCCCAAGGG TTTTGTGTTG TAGTGGTTTG CTCATTGTGT TGTTTTGTGT GTTTGTCTTG
 196321 ATTATTCTTT TTCTCTTTT GCAGCTGAAG GGAGAATTTT CAGGCCAGCC CTTTGGCCAT
 196381 TAGAGTTACA GTGCTCTAT TCAGGCTTCA TAGAGAGACC TGGGATTGAG TAGTGGGGGG
 196441 CTTTATCCCA GTTCAAAATA ATGCTATTCT ACCAAGATGT ACTTTGAAAT AAAACAATAC
 196501 TAAAACACAA AATTTTATTT ATGCTGAACA TTGAATCACT TTTTCTGTGA TTTTGTGTAG
 196561 AAAGTTATAC ACACACAAAC ACATTTGCTC CTGCTTTGTT TATTGGCCCA GGGGTATGTT
 196621 TGGTAATACT TCATCAGGCA TGAGTAGTAC GTCTTGGAAG GTGTGGTCTA AAGCCTAGAC
 196681 TCCTATCTGC TTCCTTCAGC ATTCTCCAGT GTATCTGTCA TCTGTCTACC TTAGGATGGG
 196741 GTCTCCAGAA CTTCCATTCA CATTTAGAAG AGGGCAGCGG CTTTCTATGG AAAATATGAA
 196801 CTCTCATTCA TCTCTATTCC TTCTTCTAGC TATGGTCCAG CTCAGCTGTT TGGAAATAAAG
 196861 TATCTATATG AAGTCTGCGA ATGGTTCTCA GACTGGTTGA ACATTAGAAT CACCTGAGTA
 196921 CCTTCTAAAA TTCTTATTAC CCAGGGCATA TCTCAGAATG AGTACCACAG GGTAGGGATA
 196981 GGATTAGGGA TCATGATCTC TGGAGTCTGG TTAGGCACT AGTGCTGTTT AAAACTACGT
 197041 TCATGAGGTG GAGGTTGCAG TGAGCCGAGA TGGCGCCACT GCACTCCAAC CTGGGCGACA
 197101 GAGTGAGAGT CTGTCTCAAC AACACAAAAC AAAAAAACC AACTACCCTT GTGATTTGAA
 197161 TGTCCATCCA AAATTGAGAA CCATTAGGTA AGGCCAAGCT GTATAATTA AGAGCAGTTT
 197221 TCATTTGTCT GGTGTGGTGG CAGCTTTTTG ATAAGGGAAG TATTGTTGCC ATCCACATAC
 197281 CTGAGCCTCA CTCCTGAGAA CACTGGTGTG TATGTTGCTA AAATTCCCCA GGTGATTCTG
 197341 AGGTTCCCTC CTGGATAAAA ACCACTGACC CTGGGAATGT ACCCACTGCC AATCTCCTGC
 197401 GTAAACCTTG GATACTGGGA AGCCTACAGT TGAAAATATT GGGCTTGAGA TCCTGAAACA
 197461 AATCTTGAT TTCAATTAAGA CTAATATTTG GTACAGTGCA GCAAATCAAG GGAATTTTGG
 197521 TGGCTGAGTT CTTTGTAGAAC TTTTGCATTG AAATAGGTTT AAGCAGCAAT AAGTTAAAC
 197581 TACAACCTCA GCTAAAGGAT TAAAGACAC GTGAGCTGGG TAGGATGAGG TCTAAGATTG

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197641 GGTGTGGCGG CTCATACCTG TAATCCCAGC ACTTTGGGAG ACTGAGGTGG GTGGATCACT
197701 TGAGGTCAGG AGTTCAAAAC CAGCCTGGCC AACATGGTGA AAACCCATCT CTACTAAGAA
197761 TACAAAAAAA TTAGCTGGGC GAGGTGCCAG GCACCTGTAA TCCCAGCTAC TGGGGAGGCT
197821 GAGGGAGGAC AATCACTTGA ACTCAGGAGG CAGAGGTTGT AGTGAGCTGA GATCGCACCA
197881 CTGCACTCCA GCCTGGGTGA CAGAGCAAGA CTCCATTAA AAAAATAATA ATAATAATAA
197941 CAATAATAAT AATTCAGACA TATCCAGGCA TCAAACAGAT ACCTGGGGCA GATGAATAGT
198001 CTTGAGATTC AAGTCACACA TGAAATTTAG GTGGAAAATG ACATTGGAGA AATTTGAGAT
198061 TATGATGAAT GGAAATTTTT CAAAGAGGAA TTTCAGGCTC TGTTCTTGAG GGGATAGATG
198121 GACTTCCAAC AGCAATAACA CAGGATTAAT GAGGACTTGG GATGTTACAT AAATTAGAGA
198181 TGTTAGATGG ATAAAGAGAT AAAAGTACTC TCTCTAAGAA CATGGGACCA GAGATAGGCT
198241 CACTTCTAAC CATCAGATAT AACTAGCAGA CTAAACGGTC TAAAAATAAA AATCATGCCC
198301 CACTCCTGCT TAAGACATTT TAATTACTCT CAGTAACTCT TCAGTTTTTC TACTGTGTTA
198361 TCTTTAACTA CAGGGTTGGT CTGGGTGTGC AACACAAGAA AGCCTGGCAT ATACATGGAT
198421 TCAAGTGTAT GCCATGTACA GGTATTCTTT CATGTACTAT TTCATGTATT CTTTTTCACA
198481 TCTGTTTTTT CCTTCATTGA AGTCAATGGC TGATATTAGA TTCTACTATT CATGTGTACT
198541 AGTTATATAT AATTGTTACA AAACAAATTA GCAAAAACCTT AGTGGCTTAA AGCAACACAC
198601 ATTTATTATT ACCTAAGGTC TGTGGATAGA AGTTCTGACA TGGCTTAACT GGGTCCCTG
198661 CTTCAAGCCT CATGTGGCTG CAATCCAGGT GTTGGCTGAG TCTGAATTCT CATCAGAGGC
198721 TTGATTGTGG AAATTTCCAC TTCCAAGCTC CCTCAGGTTT GTTGAAAAAT TCAGTTCCTT
198781 GCACCGGTAG AAGCTTCTTG GTAGAGGCTG ATTCAACTTC TAGAGGCTGT CTGCAGTTCC
198841 TGTCACCAG GGTGGAGTGC AGTGGAGCAA TCATAGCTCA CTGCAGCCTT GACCTCCCAG
198901 AATCAATCTG TTCTCCCACC TCAGCATCCT GAGTAGCTGG GACCACAAGT GTGTGCCATC
198961 ACACCTGCCT AAAAAACAAA CAAACGAAAA AAAACCCCCA GAGAACTTTG TAGAGACAAG
199021 CTGGTCTGGA ACTCCTGCGC TCAAGCAATT CTCCTGCCTT AGCCTAAAAA TTCTGGGATT
199081 ATAGGTATAA GCCACCATAC CTGGCATATG GCAAGTCTTG AGCAGGACAA ATACAGATGA
199141 TTTATGTCTG TCTTCCATGG TATTCTAGGT TATTGTTGAG ATGGTCTCTT ATTGTCTTGT
199201 TCCATCTATT GATTAGATAA AACGTTGTTC CTTCTGTTAT TTTTCAACAG TAGCTTTTAT
199261 GTGTCTCTCT TTATCTTAAA ATTCTAACCA AAGAGCTGCT CTTTTCTTGG TGTACTTTAC
199321 CTTTGGTTGA TCCTTCTTAA CCTCTTCTTG CCCTCTGGGG CCTAAGATGA GGGCTGTTAT
199381 CAGATGTGAG TCTATGGGAA AGCAAGCAAG AGGTTCTTCA GCCTCCGTTT AGCCTTAAAT
199441 GTCTAGGTAG AAATCAGTCA TGGCCCTTCC AATGTGGTAC AGACCAGATC ACAGAGACAG
199501 GGGTCTCAGC CAAGGTCTTG TGGCCTAAGC CTTATAGAAA TAATGAGTGT TTACTTACTT
199561 GGAGAACTCC CTTGGAATAT CTTTTTTTGT GAACCTGAGG CAACTTTTGG TGATTTCTTG
199621 ATGTCTTGGG AATCTTGGTC TAGAGCCATT TCAACCTGAT TTCTTTTCAT GTCAGTGCCA
199681 TTTTGTGACC AGATAGTAAA TAAGTCTAT GATGTTCACT CAGAGAAATA CAATGACTTA
199741 TGATGTGAAG CTTCTGTGGT TCAGCCCTTA CTTTATCTTC ATTCCCTCTT ATCTGCATCT
199801 GTCTCCTGCT TGGGAACAAA AGTCTGGCTT CATTCTATGA CCCCCACGTT GAGTTTCTTA
199861 GTAGCACTTA CTTTTCAATT AGGAGTGTCC TCACCTCTAT CCATCAGACA TAACTAGCCG
199921 ACTAAACAGT CTAAATATAA AAATCATGTC CTACTCCTGC TGAAAACATT TTAATTACTC
199981 CCCATCATT AATTTTTTCT ACTGGGTTAT CTTTAACTTC AGAGTTGGTC TTGTGTGCAA
200041 CACAAGAAAA CCTGGCATAT ACATGGATT CACGTGCATG TATTCCTTCA
200101 TGTACTATTT CATGTATTCT TTTTACATC TGTTTTTTCC TCTAAAAATT ATTTCTTTT
200161 AAAAATGAAA ATTTTGCATT TGACTAAATT TGTCAAAATT AGTCAAATTT GTTTAAAAAC
200221 ATTTTTAAAA TGTTCCCGA AGTTTGTAGT GAAGTTAGTA CTTCAGAAAA ACTGTTTTGT
200281 ATTTTTTCATG TGACCTCAGT GCACTGCTGT GCATTTCCAT TTCTGCGTCC ACACACATTT
200341 GTTTTGAGGA AATATAGGAA CGACAAGATA AAGTTCAAGC TCCTGGACAT TGCATAAAAG
200401 ACCGTCATGA CCTGGTCCTG TTGACTTCCC TAGATTTCCC GCTATTTTCT AAGTTGAGAT
200461 TTTTGGTTTG GATGCTTTGT GTTTTCTTAA AATCAAAATA GGTTTTTGCC TTTTATGATT
200521 ATACAGTAAA TAAATGCTAT TTGTGTGAAA CTTTAAACAA TACAAAAAAA ACCTAAGGAA
200581 GAAAGTCAGA TTCATCTAAA AATCCTTGTG GCCAGAATTA ACTACCTTAG TTATTATTTT
200641 CTCTATCTCT CTCTCTCAAT GTATATTTGG TGTAGGTATA GGGGTGTGTG TAGTGTGTGT
200701 GTATGTATAT ATCTGTTTCT ATTCTGTAT GTGGATGTGC ACAACGCATC CTGCTTTGTA
200761 CACTACAGTA CTAGCATTTT TCTAATGTAA TTCAATATTG TTGAAAACAT TTTAAAAAAG
200821 CTTGTATATA TACACACACA TACACATACA TGCATGTATG TACATATACA CATAACAGACA

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200881 AAAATGTATC CTATGTATAT TCACACATGT ATACACACTC ACACGTACAT AGAGTTTTTAC
200941 ATCCATAGTT TATAAATGTT GCTTTTTTTTTT GGTACACCTTT TTGCTAAGTC TTACACTTTT
201001 TTTTTTTTTT TTGAGACGGA GTTTTGTGT CATTGCCAG GCTTAGTGCA GTAGCGCGAT
201061 CTCACCTCAC TGCAACCTCG ACCTCCCGGG TTCAAGCGGT TCTCCTGCCT TAGCCTCCTG
201121 AGTAGCTGGT ACTACAGGTG TGCGCCACCA TGCCTGGCTA ATTTTGTAG TTTTTTATA
201181 GAGACGAGGT TTCACCATGT TGGCCAAGCT GGTCTGGAAC TCCTGACCTC AAGTGATCTG
201241 CCTGCCTCAG ATTCCCAAAG TGCTGGGATT ACAGATGTGA GCCACTGCAC CCGGCCAAGT
201301 CTTACACATC TTTTTTTTAC CACTAACTG TTTACCCAAA CCTGATAACC CAAGTCAACA
201361 GCTATTATGG CTCACACAAT CTTATGTAAA CAAAGATACA GATATATAGA ATTTTCTTGA
201421 TTAATATTC AAAAAAATG GAGTCCCTTT ATACGTCCTT AGTATCTGCT TTAATCTTTT
201481 AAAATGTAT TACATTATAT GAAAGTATTC AGGTCAAATG TTATAGATGT GATTCAATTCT
201541 TTTTAACTGT GTTATTTTTC TGCAATGACT ATGTATCACA AAGTACTCAG TCTTCCACTG
201601 ATGAAAATTT GGGCTATTTT CAGTTTGTCT TCCATTTTTC TTTCTTCCTC TTGGATTTTC
201661 ACTCAATGTG TTTACTAATT TAGGAAGAAT CAATAGTTTT TATGGTATTA CTTCTCCCAT
201721 TCAAGAAATAT AGCATATGGT ATAGTATAGT AGAGTACTTA GTTTAATTTA GCCAGATCCT
201781 GTTTTCTGCC CTTTAATAAAA ATTCTATCAT TTTCTGCCTT TGAGTCACAT TTTCTTTGTT
201841 CATATAATTC TTAATAAATG TATAGTTTTT ATTCTAAGGG AACATAAAAA CTTCTTTCCA
201901 TTTCTATTCC TGTCTAGTTA ATTCTACTAT TGGGAAAAGT AACTGTTAAA AAAAATCTTT
201961 ATCTTTCCAG TCAGTTCACC ACATTTCCTT TATACCTTTG TACTTTAATC CCCAGTCATG
202021 TTGAACACTT CTTATTCCTC ACACCAAGCC TCAACGGGTT TGCTCTTTCT GGAAGGTGCT
202081 TCCCCTGTAT TACTGACTTA TTCATACCAC ACATGGAGAC TGGCGCAGCC CTGTTCTGCC
202141 TGGGAAGCCT TCCCCTGATA CCCCTAGTTG GCAGGAGTCT TCATTGTGTC TTTTCTAGTC
202201 ACCTGTGCAA GTTTGTATTG TTCATGTTTA TCATCCTTCA TTCTAGTTGT CTGTCTCTAT
202261 GTGTGGTCTC ATTCAGTGGA CTCTGAAGTC TTATGAAGTC ATGTCATGGG TCAGATCTTA
202321 ATAAATTAAT ATTGTCGGAA GCTAATGTCA TGTCTAGAAT ACAGAAAATT TATCAAAAAA
202381 AAATATAGTA TGTTGGCTGG GCGCAGTGGA TCAAGCCCGT AATCCCAGCA CTTTGGGAGG
202441 CCGAGGCAGG AGGATCACAT GAGGTCAGAA ATTCAAGACC AGCCTGGCCA AAATGGTGAA
202501 ACCTCATCTC TACTAAAAAT ACAAAAAGTA GCCAGGCGTG GTGGTGCCCA CCTGTAATCC
202561 CAGCTACTCA GGAGGCTGAA GCGGGAGGAT CACTGAACC TGGGAGGCAG AGATTGCAAT
202621 GAGCTGAGAT CATGCCACTG CACTCCAGCC TGGGCGACAG TGAGACTCCA ACTCAAAATA
202681 ATAGTAATAA TAATAATAAT AATTGTATGG AATTGAAGTC CTCTGATTGG AAATAGCTGT
202741 TTTTTAAAAA ATTATTATTT TTTAAGTTCC TGGGTACATG TACAGGATGT GCAGGTTTGT
202801 TACATAGGTA AACGTGTGCC ATGGTGATTT GCTGCACCTA TCAACCCATC ACCTAGGTAT
202861 TAAGTACAGC ATGCATTAGC TCTTTTACCT AATGTTCTCC CACACCCCCA CCCCATCCTC
202921 CCCCACAGG CCCAGTGAG TGTTGTTCCC CTCCTGTGT CCACGTGTTT CATTGTTTCA
202981 GCTCCCACTC ATAAGTGAGA ACATGAGGTG TTTGGTTTTT TGTTCTGCTC TTAGTGTGTA
203041 ATGTCAGGCC AGAGAGGCTT AAATTTTTAA GGATCTCTGG ACTTTTCTTC TACATTACTC
203101 TTGATGTTTA TAAATGTTAC AACTTCTTTA ATTTCAATTA ATGTATACCT TATTGAGTTG
203161 ATTTAACTGA GTTAACTTTG TTATATGAAA ATCATGATTG GGAGTGAGGG GGTAAACCA
203221 GCTACAGAGA TCTTGATTGT TGGTGGTGAA GCAATGCAAG AATTCAATTA TTCAGTAAAC
203281 TAATGTTTAT TAAGCGTGTA CTGTCTTAGT CTGTTAGAC TGCTGTAACA AAATATCATA
203341 AACTGGGTGA CTTATAAACA ACAAATAATT TATTTCTTAC AGTTCTGGAG GTGGGAAGTC
203401 TAAGATTAAG GCCCTGGCAA ATTTAGTGTC TGGTGAGGAC AGGTAGCCAT CTTTTGTCTG
203461 AGTCCTAACA TGGCAGAAGG GTTGAATAAA CTTCTTGGG TTTCTTTTAT AAGGACACTA
203521 ATCCTAGTGA TGAGGTTTCT GCCCTCATGG TATAACTACT GCCCAAAGAC CCTCCTTCT
203581 AATATTATCA CTTTGTGGGT TAGGATTTCA ACATGAGTTT TGAGAGGATA CAGACATTTG
203641 GATCATAGCA CACACCATAG GACAGACACT GTGCCAAGAA TTGTGGATAT AGTGATTCTC
203701 AAAATGAACA AGATCCCCTC AGAGAGCTTG CAAAATCCAG CTATAAAATT ATGCTTTTTA
203761 AACAAATTAT GCAGTTTGAA AAATCTACTC TGAATCTTAC TTGTGGCATT GAATACTTTT
203821 GGCCACTCTT TCCTTATTAT ATTAATATT TACTCTGTTT TGGGGGATCC AGTCTCACCT
203881 ACTTTTTCTA CCAGAACTGG TATCAGCTCA TGCTCTGCCT TATGCAAAAT AAGAAAATAT
203941 CATACCTTTT GGGTAAATTA AGCCAAGAAA GTTCTCCTTT CTTCTCTTTC TCTTTCTTT
204001 TCTTTCTCTC TTTCTCTTTC TTTCTTCTC TCTCTTCTT TCTTTCTTTC TTTCTTTCTT
204061 TCTTTCTTTC TTTCTTCTT TCTTCTTTC TTTTCTTTC TTTCTTCTT TCTTTCTTTC

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204121	TTTTTCTTTC	TGACAGGGTC	TTGCTCTATT	GCCTAGGCTG	GAGTGCAGTG	GTGCAATCTC
204181	AGCTCACTGC	AGCCTTGAAC	TCCAGGGCTC	AAGCAATCCT	CCTGAGTAGC	TGGGACTATA
204241	GGCATGTGCC	ACAACATCAA	GCTAATTTTT	GCATTTTTTT	GTGGAGACGG	GATCTCCCTA
204301	TGTTGCTAAG	GCTGGTCTTG	GATTCTCTGG	CTTATGCGAT	TCTCTGCCT	CAGCCTCCCA
204361	AAGTCCTGGG	ATTACAGGCA	TGAGCCACTG	CCCCTGGCCA	TTATAACTAT	TTTCATTGGC
204421	TTATCAGGCA	CATGATAACT	ATAATAATC	AATAACCAGA	ATTTTTAAAT	AAAGAAAGGA
204481	AGGAATTGTT	TCAACTCTTC	CTGCTACCCC	TCTATCCCTC	AAAAGGGTAG	GCTGAATGTT
204541	GTCCTCCAAA	GATATCCATG	TCCTAATCCC	CAGAACCTGT	AAATATATTA	CCTTATATGA
204601	CAAAAGGGAC	TTTACATGTT	TAATAAGTTA	AGAATTTTGA	GATGGGCAGA	TTTTCTTGAA
204661	TTTTGCAGAT	GGGCCCTAGT	GTAATCACAA	GGGTCTTAT	AAGAGACAGG	CAGAAGAGTC
204721	AGAATAAGAG	AAAAATACTT	CAAGATGTTA	CACTGCTGGC	TTTAAGGTGG	AGGAAAGGCC
204781	AAGAGCCAAA	AAATGCAGTG	GTCACTACAA	GCTGAAAAGA	AAAAGAAATG	GATTTTCCCC
204841	TAAAGCCTCT	GGAGGGGGCA	CAACCTTGCC	AATACCTTGA	TTTGGCTCA	GTGAAACCCA
204901	TTTTGGACTT	CTGACCTTTA	GAAGTGTAAA	TAAATAAATA	ATTTTGTGTT	GTTTCAAGCC
204961	ATCACAGTTG	TGGTAATTTA	CTACAACAGC	AATAAAATAG	AATTAAATAC	AGAGATCTGA
205021	GGAGTTGAGT	AGGATAAGCC	TACTCCAGCA	GGTTATTTTC	GGAGTATGGT	GAGACTCACT
205081	AGGATGGCGG	AACTCAATTA	AGGAAGTCTG	AAGCTGATAA	GCCAGAGAGG	GAAGGCTCTC
205141	ACTTCATTTT	ATAAGGGTTG	CGTCACACTA	GGAAGATCCA	ATAGCAACCA	CAGTCTCAAA
205201	ATTAATGATT	ACAAATAGGA	CACAATTCCA	AGAGTCGGGA	GCCAAGCAGA	AAATGGATTA
205261	GGGAAGACAT	GGATGATATG	AAACAGGAAG	GAGGGGTACA	AGGCAGCTTC	CTGGGAAGTT
205321	GCCAGGGCAG	TCACAGTTCA	CATTCAATTAG	GCTGTGGGCA	CCAAATGCAT	ATGGAATACT
205381	TAGCTGACTT	AACTGAAGTC	CTGAAGAGGA	ATGAACACCT	CATTATTGGA	GGAGACTACTA
205441	CCAATTAGAA	TATGTATTTT	ATTTGTTCAA	TAACCCCATG	AGTACAGTAA	CACAATCCTT
205501	GCTTTACTAA	AGCGGAAGCC	AATTCAAAGA	GGTTCAGTGA	CTTGTCCAAG	CTCAGGGAAA
205561	ACACTAGGAA	GTGAATATGG	GTCTGACTCC	ATCACTGATT	TCAGGAGCCC	TGCCCTTTCC
205621	TCCACACCAT	GCCCCCTTGC	TTTCAGAAAA	AAAGGCTTGT	TGACTGAATG	GTTGTATGCA
205681	CAGTTCAAAG	CAGAAACACA	CGATGACATC	TTTTGAGATA	CTCTAACAGT	GAGAACTTGA
205741	AAATGAAGTT	AAAAATTAAG	CGGCAAAACC	AAGCCGAGGC	TTTCTGAGAA	AGTGGGGCCA
205801	AACCTGTTGC	CGTCTGACTG	CCACGTGGCT	CATTATTTAT	CCCTGTAAAA	ATCTGCAAAA
205861	GTATTTGAAA	GGGAAGAAGG	GACAGAAAAC	TCCCTCCTTT	TCCAAGTTAG	CCTTATAGTC
205921	TAGGGCTTAA	AATACTGGTT	TAATGGTGAA	GGTAAGTGCT	TTTCTTCTTT	TGGGTATGAA
205981	GGATTATTAC	TAAGTTACCA	AAGGTCCATT	AAGGGGAGGG	AACAGTTTTA	GGAGAAGTCA
206041	GAGAAAAGAC	ATTAACAGCA	ACATAAGGAT	CTCCATCTGG	TAATATTGCC	TAATTCCAAA
206101	ATGAAGAGAC	TCTCTGAAAA	AGATAACTGA	TTCAATGAAG	ACCCTAGGGC	AAGGCTTGAG
206161	AAGCCACTGG	TACCAATGGA	CACTGTGGAC	AATGGTCATT	TCTCCAAGGA	CGCTGTGAGT
206221	ATTAAGTGTG	ATGCTGTGAT	TAGTCAGACT	GGGATTGGCT	GTGGAATGAA	ATACTGATCA
206281	GAAGTGACAA	GATTTGTGTT	TGGGACTGTG	GCTAACGAGT	CTTTTCAGAC	TTCTATATGA
206341	ATTTGAAATG	GTCTCTCAGG	AAAAGGAGAA	CATGGCCGGG	CCTGGTGGCT	CACGCCTGTA
206401	ATCCCAGCAC	TTTGGCAGGC	TGAGGCGGGG	AGATCACTTG	AGGTCAAGAG	TTTGAGACCA
206461	GCCTGGCCAA	CATGGTGAAA	CCCTGTCTCC	ACTAAAAATA	CAAAAAATTAG	CAGGGCGTAG
206521	CGGCGCGTGC	ACCTATGCGC	ATGCATAGTG	CGCGTGCCAG	CTATTTCAGAA	GGCTGAGGCA
206581	GGAGAATTGC	TTGAACCCAG	GATGTAGAGG	TTGCAGTAGT	TGAGATCATA	CCACTGCACT
206641	CCAGCCTAGG	TGACAGAGTA	AGACTCTGTC	TCAAAAAAAT	AATAATAATA	AAAGAAAAGG
206701	AGAACATGAC	CAAAGTTATG	AATAAGACTG	AAGGCAAGAA	AATTGTACGC	TTGTAGAGAT
206761	CACCTAGCTT	GTTGCCCTCA	TTGTACAGCT	AAGAAAAGGC	ACCCAGGGAC	ATTGTGGTCA
206821	GCACCAATTT	CTCAGAAAGA	TAGGCAGATG	ATGAGAGGGC	CCTCAGTTTT	TCTAACACTG
206881	AAGGAATTGC	TTCTATGTTT	TCTGGTGAAC	TCCTCCCCAC	TCATCTTGAG	GATTCCAGGC
206941	CAGAAGAATC	CACTTTAAAA	AAGAAAACAT	TAAAACCAAT	TTAACAACCA	ATCAAAGGCA
207001	CTTTTATAGA	AATACATTTT	ATTTGCTGTT	GGCCTGTATT	TATGGATCTG	AGAGGGCTAG
207061	ACTGCCAATA	TTGTGACTGT	TTATTATTAT	TGCTGTTGCT	AGTATCTAGA	ATATTATACA
207121	ACATATAACA	CTTTGCAATT	TACGAGGCAT	GTCTCATACT	TTTGTTTTCA	CTCCAAACTG
207181	CCCAGTGAAG	TAACATTATC	CCAATCTCTC	CTATGAAACA	GTGAAAGCCC	TAAGAGTTTT
207241	TGAAACTTTA	CCTGGTTTAC	TCAATTTGGG	AATGGCAGAG	CAGAATTCTG	TCCTTGAATA
207301	TCCTCCCACT	GCAGGTTTAT	GCTCTTTGAT	CTAGGTGTAA	CATTTACTCT	GAGTAAACTA

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207361 GGACTCTGGG CTAACAGAGA TGAAGCAAGA CAGGCTGGAT ATTAGGAGAA TCTAAGAGCA
207421 ATCTAACGAC CATTATAATA AAATCATGAG TTCTAGACTT AAAAAAGGG AAAACCTGT
207481 TTTTGTGCTT ATGCGTATAC CATAATATTT ACATTATTTA TTTTCTCTC AAATCAACC
207541 TATACGGTGT CAAGTAATTT TTTTAAATAT AACATTTTCC TTTAACTTAA TTTCAATTCA
207601 TTTTCTGTG TCTACTTACA ACTTTGGCAC TAGAATTCAC AATTTTTTTT TAGAGGTATA
207661 TCTCCTTAAA GGAAGGGT CTGACACTGT TACATGTTCT CAATTGTTTG CAAATAGGTT
207721 AATAATTATT CCAGTGTCTC TAAGTACATA TCAACCATGC CAGTGTTCAG CCTCCATAAT
207781 TTTATTAGCT TCTGTGCTTA TTTTGGAAAA ACATTTCCCA TTACCATGAA AGACCTCAGT
207841 TTAGGATGGT TTGGTATGTT AGCCTGATTT CTGCATTCTG CTCATGCAAA GGAAAAATAGG
207901 AAACGAAGAA CTGAAATTAC CTATTGATAT AAAATCAAAG TAGCATTGTA AACCATAAAA
207961 CTTAAGTAGG GCTTTTCATC CTTTCTCGTT AGACAGCAAC AGAGAATGGG AAGAAAACT
208021 AAAGTGATGG GTTGTGATA CAATTCAGT AACATAAAGA GCAAGGAGAA GTAGTTTGT
208081 TGTGTTTATG TTTAATATTC AAAGCTCAAC CTAAGATAT TTTTCAATT CAAACTCTCT
208141 TCTAGAATAA ATGATTAAAA CTGATTTTAA AATATACAAA TTCTCCTTTA TAATACCTCA
208201 AAATGGAGCT ACCCCATTGA GTTTTAAAGT TGTGATTAAA ATATTACGAA AACAAAGGGG
208261 AAGTTGTAAT AGGTAGAACA AGCAGTAGTC TAGGCATTAG GGGATCTGGT GCTGGCTCTG
208321 TGCATCATGT GGTTCAGGC AACTTTTCAA ATTTTCTACG CAAATTTTCT TATCAATAAA
208381 ATAAACAGTT GGGCCAGAGG ATCTCTGAGT CTCTTTCAGC TTTCAGTGTT TATAAGATTG
208441 GAGAAGTTGG TGGGAAAGCT TTAAGTGGAG TGTAAGTAAT TGCAGCTGCA TGTACAGTTA
208501 AAGAGTTGCC TTCAGCCAAG CCACGGGATC TTGCATAAAA AGTGAAATCA AATAGAAAAAT
208561 GGTCCAAACT CTGGGTTTGA CCACAGATGA CTTCAGCTAG GATCTGAGT TAGAGCAATG
208621 AGCTGAACTC CTGATATCCA GATGTTAGCA AGACTTGGAG GCCTTCTAAG GCAGAGCAAC
208681 AACCAGTATC TGTCTGGTG CTGACCTGAT CTTACTAGCA ATTGGGCCTC CATTTGGGTC
208741 CATTGTACAA AACAACAACA ACAACAACA TAAAATCTCC AAACACCCAA AATTCAAAAT
208801 TTAGATGGAG AGATACTATT CCCAGAATTC TAGAGATATT TGGAAAGCAG AAACTATAC
208861 TTGCCATGCT GATGAAGTCC AATTATTGCT CTTTTAAATA CATTTAGCTA CTCTGAATA
208921 TAAAATGAGT ATCTACTAAT TATTACAAA ATCACTTGGT AAATATAGAA AGTCACAAAG
208981 AATGAAGTGA TCATCCTGTT TTGTAACCCA GAAATAGTCA TTACTGGCAC TTGTGTGAAT
209041 CAGTTTCTAT TCCTGTATGT GGATGTGCAC AGCGTATCCT GCTTTGTACA CTAGAGTACT
209101 AGCATTTTTT TAATGTAATT CAATATTGTC GAAAACATT TAAAATAGCT TCCATCACAA
209161 TAATCTATCA AATTGACTTG CCAGACTCTC ATTATTAGGT TAATTTATCT CTAACATTAT
209221 GCAGTCATGA GTAATACTAC AAAGGATATT TTTGGACACA ATTTTTCATC TATGCCTTTC
209281 TTTATAATCC TTCATCCTAA GGTACAGAT TATGAATATC TTTAAAGTAC GGACAAGTCT
209341 TTTAAATTTT GTGTGCAAAA ACAGTGCAA GCCTTGAATG ATAAAATAGA GGTGTGATAT
209401 ATGTGTTTTT TTGTTTGTGTT GTTTTGAGAC GGATTCCTGC TCTGTCCCCC AAGCTGTAGT
209461 GCAGTGGCAC GATCTTGGCT CACTGCAACC TTTGCCTCTT GGGTTCAAGC AATTATCCTG
209521 CCTCAGCCTC CTTAGTAGCA GGGTCTACAG GCATGTGCCA CCACACCCGG CTGTTTTTGT
209581 ATTTTTAGTA GAGATGGGGT TTCACCATGT TGGCCAGGAT GATCTCGAAC ACCTGACCTC
209641 AAGTGATCCA CCCACCTCAG TATCCCAAAG TGCTGGGATT ACAGGTGTGA GCCACTGCAC
209701 CCGGCCGATA CATGTGTTTT TAAAGTCACA GAAATTTTCA ATGTCTTGAA GGATTTTAAG
209761 CAATTTAAAA AATAAAGTCA TAGAAGCTTC AATTTAGGAA TGAATGGAAA ATTGATGATA
209821 TTCTTAGGAT ATGGATTTTT CCTAAAAGAA ACAAATGTAT GCATCCCCAA AGATAATTTG
209881 ATTAGTATAC AAATATTAAA TTAACATGT CCATATTAG AGCCATGAAT TCTCTTTGCC
209941 TGTCACAATA GCTGGATTTA TTCACAATTG TAGTAATTAG TCCCTGTTCA TTATAATTTT
210001 CTAGGTGATA TGAAGACTTT GTCAGTCCAA GCAAGTGTC ACATTGTGTG TAGCAAACAT
210061 GAGAATAAAC ATTTTAAACT TTTAAATGTA ATACATATTA GTGTTATGTA ATGTCATCCT
210121 TCATGTTTGA AGGCACATGG AACATTGTTC TGGTGGTACA GAGGGGAGAG AAACACCATC
210181 AGAATGAAAG GAAAGACCGC TCTGGAACCT TCCTCCTTAG CTCTTGAGCT TAGTTTAAAT
210241 GTCCTGTCTT ATGGTCTGCT ACAAGCAATA CCACTCTTCA CCTTCGCATG CTTCTCTGTG
210301 GTTTGATAAA GTACATGCAA TTTTTCATTT AATTTCTCCA GCTGCACTAA GAAAGGAGCC
210361 TTATCTTTAT TGAACAGATG AGGAAATGAA TGATTAGAGA ATTTAAATGA CTAGCTCTAG
210421 GTCACACAGC TGGAACTTAC AGCCAGATTT CCTTTTAAAC ATCCTGTAAC CAAAAGCATA
210481 CCAAGTAGTC CCCATAAAAT GTAAGTTATA GAGCTGTGTT GGGTCAAAAC TTTTACTGAT
210541 GCTAAGAGGA GGCAACATTA ACAAGGGGAA ATTATTGTG TATTATGTTT TGGATTATGT

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210601 TCTCTCCATA GATAAAAGAC TGTCGTAGTA AAAGAGATTC AGGGCACAGG GAAACTCCAC
210661 CACAAAGCGT GGTACCATT CCCACAGAAG CTAAATGGAC GGAAGCCTG CCACCAGGAA
210721 AGGTAAAGCC ACTGCTCTTG TTTGCAGGCT ATGTTAATAA GCTGAAGCTT ATTCCGACAC
210781 ATTTACACAT CTCTGCATCA CACTGACCCT TCGTAAAGAT ACTCCCAGTG TAACATTGGA
210841 GCCAGCTCCA GCCCCTGATC CTGTTGCTTT TTCCTTAGCC CCATGAAATC ATCTGCGAGA
210901 AATTAAGCCA AATAAGCAAT AAATCCTGGG ATCTAGGGAG TGAATAAGT TTTGGGAAAG
210961 TCTTTTTTTT TTTTTTTTTG ACTGAGTCTT GCTCTGTCTC ACAGGCTGGA GTGCAGTGGT
211021 GCGATCTCGG CTCACTGCAA CCTCTGCCTC CCGGGTTCAA GTGATTCTCC TGCCTCAGCC
211081 TCCCAGTAG CTGGAAGTAC AGGCACACAC CACCATGCCC AGCTGAATTT TTGTATTTTT
211141 AGTAGAGATG GAGTTTCGCC GTGTTAGCCA GGATGGTCTC GATCTCCTGA CCTCGTGATC
211201 CACCGGCTC GGCCTCCCAA AGTGCTGGGA TTACAGGCAT GGGCCACCAC GCCTGGCCCG
211261 GGAAAGTCAT TTTAAACCAA CCTATGTATG AATCCCTACT ATAATATTCT CACCAAGCGG
211321 CTGGCTCTTT CTCCTGAGCT TGGAAACCTC CAGTAAATG GAAATAATTA TTTCCCAGAC
211381 CACCACTCTT ATCTGTGAGC TTTTTTGGCC ATTAATAATT ATTTCTTCCA TTATATTTTT
211441 ATCTGTGTCT TCACAGGTTT TCTCTTTCTT TCACTTTAGT GCTTTTCTTC AAATAAGCAG
211501 GAAAAATCCA ATCTATCATG CACATGGGAA CCCTTCAAT ATTGGTCTGT GGTGTGTCCA
211561 TTTTATGGGG ATGCTTTTAA AGAAAAAATT TGTCTTTCA ATATATTGAA TATCTTCCAG
211621 CACCACATCA CCTGCAAGCT TTGTAAAAAT AGTTCTACAT ATTAATTTTT TTTTCTTTTG
211681 AGATTGAGTC TCATTCTGTC ACCCAGGCTG GAGTACAGTG ACATGATCTT GGCTTATGTC
211741 AACCTCTGCC TCCTGGGTTT AAGTGATTCT CCTGACTCAG CCTCCCGAGT AGCTGGGATT
211801 ACAGGCATGC ATCACCATGC CTGGGTAATT TTTGTATTTT TAGTAGAGAT GGGGTTTCAC
211861 CATGTTGACC AGGCTGGTCT CAAACTCCTG ACCTCAAGTG ATCCACCTGC CTTAGCCTCC
211921 CAAATGCTG GGAATACAGG CGTGAGCCAC TGCACCCAC GTAGTTTTT TTTTTTTTTA
211981 AGTTGAACAT ATGTGAAGGC AGGACCTAGT GACACATAGC AATAACATT CCAAGTAGAC
212041 ATTACACTAG GGAATTAGTC AAAGTGCTCA TTTAAAGTAC CATCTCTCAA ATGTATTAAA
212101 AGAGAATCCT TGGATGTGCA ATACCTTAAT TCAAAGGCAG CTCGTTATGT ATAACTCTC
212161 AAGCTTTGTG ATAAACAAAT GTGCATAACA GATGGGACTA TTGACTTACA GCCCAGGGAA
212221 TTTTATTGAC GCTGAGAAGG TTATGTGACT GGCTCTGCCA CTGTCATCCC CATTCACTTC
212281 ATTTTGGAGC AATATGACAT AAATGCCTTA CATGTGGGTT TTCTCTATTT ATCATGTGTT
212341 TCCTATCCCC TTGAAAGATG GCCATATTTG CTTTACTTGG TTATAAGATC CCATATTCGC
212401 TGTCTTGAAG CCAACCAAT AATTTGACAA AGTGGGTTTG TAGTGCTGGC TATTTTGGTG
212461 AAAAAAGAC AATGAGACTT CATGTGTCAT CCAAAGTTCT ATCAGATCGA GCTGTGAGAG
212521 AAAGGAAAAG AAAGGGGTCT CAGTCAGGAT GCTCACTGCA TACATCTGTG TTGTTGTCTA
212581 GGTCAGATT TCTGTTCAAT ACGCTATGGG CTGGCTCTTA TCATGCACTT CTCAAACCTC
212641 ACCATGATAA CGCAGCGTGT GAGTCTGAGC ATTGCGATCA TCGCCATGGT GAACACCACT
212701 CAGCAGCAAG GTCTATCTAA TGCCCTCCACT GAGGGGCCTG TTGCAGATGC CTTCAATAAC
212761 TCCAGCATAT CCATCAAGGA ATTTGATACA AAGGTAAGTA TGATGGAAAA TAGGGCTCTT
212821 GTTTGAGAGA AAAAAGTTTG AAAGGAAGGC ATAGATCTTG ATTCTGTGGA GTATGGAAGT
212881 ATACATTTCC AATGACAAAT TAAACTGAC TGGAACTATT TTTCTTTGAG ACATTGCTTA
212941 CTTCAATAAT AAAAATAAGA TTTCAATTGAG GTTATTATGA TTATAAGGTG GGGGAACTGT
213001 AGAGTTAAAT GTGAAAAATT TAAAAATGGA ACAGTTTATG TGATGTCTTC AATGAAAAAC
213061 TAGGTATTAC CTGGGCACAT TCTTATAGGT TACTCAATCC TATTCAGTTC TCTGCCTGTT
213121 TTATTGTTTT TGAGCAATTT TATATCCCTG TAAATTCTAT ATAACCAATA GAAATGCAAA
213181 CGATTCTTGT CCATAGCTTT GCAAATAAAT TTTGCCAAGA GAAAAATCAG TTAACCTTTT
213241 TCTCCACTCA CCTCCAGTT GAATTAGCCA ATTTTGCTGT TTGTTGTTTT GTTTGTTTTT
213301 TGAGATAGAG TCTTCCTCTG TCATTGAGG TGGAGTGCAG TGGCATGATC TCAGCTCACT
213361 GCAGCCTCCG CCTCCCGGGT TCAAGAGATT TTCCTGTCTC AGCCTCCCAA GTAGCTGGGA
213421 GTAAGGGGGC ATGCCACCGC GGCTGGCTAA TTTTGTATT TTAGTAGAG ACAGGTTTC
213481 ACTAGGCTGG TCTCGAATC CTGACCTCAG GTGATCCACC CGCCTCGGCC TCCCAAAGTG
213541 TTGGGATTAC AGGTGTGAGC CACTGTGCCA GGCTGTGCTG TATATTTAAA GTCTATTTCA
213601 GCATTGCTTC CTGCTTGTG TATGCGTGAT TCTTTGAGTT TTCTTTGAA CCAGTTATAA
213661 CATCTTACTT ACTTCCTCCA TTAATCAATG AGTTAAATAA AATCTTTGTT GTATGTTTAT
213721 TTTACATTTA TATGAAAACC ATGAATTTAC CCAATTAATA AAATTATCCT TTAATATATC
213781 TTGTACTGTA CATTTCCCAT GTCATCCCTA TAATTCATGA TTAATGATTT TATTACATTG

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213841 GACCTAGCTT ATTTACAATG AGTACATAAA TTTATTGTCT CCAGTCTTTC CTCCATTATC
213901 CCGTCTACAT ATCCACACTG AGTAGATTCA CTACTCAGGA ATCTTGGACA CCTTCAAGTT
213961 GCCAAACATG CAGTGTTCAC TGGACATGCT GTGTTCCCTC AGAATTTGGG CCTGCTTCTC
214021 AGCACACTCA CATCTGCTAT CAATGACCCA TGGAAAGTTT TTGCCCTGAG CAAGCCAGAG
214081 TCCCTGTTAG TTTCTTCCAA ATGCTACAAG TTCACTTTGT CTATTTTTTC CGATGAGATA
214141 AAATTTTCCT TTTTGACTTT CTACAAATCA TAGTCATTTT TCAAGGGATA GTTCAAGTAT
214201 TGCTTCCCTT CTGGGACCTT CCCAAATTAT TATTTTCTCC TCTCAAAGTC TCTGTTTTAT
214261 TTATGTTTCAT CCTCAAATCT TGATTCTCAC ATGAATCATA TACCTTGTAT TATTTATAGT
214321 TTTTTTGAGT AGGTAAAATA TTTTCATATT TATATTCTTT GGCTCTCTAC TTTATAGCAT
214381 GATGCCAGAT ATTTAGGGGC CTTACTGCAT TTATTTTFTA TTTTATTTTA AAATCTATTT
214441 TATTTTTTAT TTATTTATTT TAAAATCTAT TTATTTTATG GTAAATATTC AGGTAATATA
214501 ATTTATGTAA TTATTTAGGA ATTTTAGGTA GTTATTTTAA AATAATTCAA ATTATTTATT
214561 GAGTTATATC AGAAGAATGT GATCTTATTC ATTTGTAATA TGTGTTTTAG GAACTCAGTT
214621 CAGCCAGGGC AGACCATAAT TCCCAAACCT GACTTTTCTT TTTAATTAGG CACTGATTTT
214681 GGTAAAGAGT TCAGTAAAGT TTTGTGTGTG TGTTTTAAAA AATTCCTTGA TATAAGAGTC
214741 AAGATGTTAC TCAACTTTTA CTAGAAGCAA AATAGAGGAA GTGCTTTCAC AGATGAAATA
214801 TCTCTCAATG TTTTCTTCCA TTTACTTCTT CCTATTATTC ATCTATATAA TCATTTTCTT
214861 TACCTCTTTT CTTCAATTCT TCTGTTTTTC TCTCCTACTA AGACAAGCAA ATTAGGGGTA
214921 TAATTGGTTA TTTGGGAAGG TAGGAAGAAT ACAGAGAGAA ACAAAAATCA ATATTTTATA
214981 CTAGGGTCTC ACTAACCTCA AGCAACTCTG ACTGTAAAGT AGATTTTCAT AATGGACTT
215041 CTTGACAAAG AGTTTTCTTA TTTTCCCCC AGGCCTCTGT GTATCAATGG AGCCAGAAAA
215101 CTCAGGGTAT CATCTTTAGC TCCATCAACT ATGGGATAAT ACTGACTCTG ATCCCAAGTG
215161 GATATTTAGC AGGGATATTT GGAGCAAAA AAATGCTTGG TGCTGGTTTG CTGATCTCTT
215221 CCCTTCTCAC CCTCTTTACA CCACTGGCTG CTGACTTCGG AGTGATTTTG GTCATCATGG
215281 TTCGGACAGT CCAGGGCATG GCCCAGGTAT CCAGATACTT TCTCATTTCT GGTGGGATCC
215341 AGATTTCTGA ATTCTACAAA ATATCAAAGG TCTTAATGAT TTTCAATTCA GGAATGGCA
215401 TGGACAGGTC AGTTTACTAT TTGGGCAAAG TGGGCTCCTC CACTTGAACG AAGCAAGCTC
215461 ACCACCATTG CAGGATCAGG TAAGTGTGCA CAGATGGGTC ATAGCTTTGT CATCTGTTC
215521 ATCCCACTGT GTCTTATCTT CTATGAATCA AATGGTTTGG GGAAGAGAGA GAAAAAGTAC
215581 TGCTGAAAAA TTCAACAATA TAAGACACTT GCATCACAAA TAGGAAAGAT GCATCTGTGC
215641 AGTAAAGACA TTGAAGCTTA GAAGTAGAAA AAACCATTGT GAGCTAGGTT TCAGCTCAGA
215701 AAAGCCTTAG TAGTCAGAAA AGCCTTAGTA GTCAGAAAAG CCTTGTGCGA AAAAGTTTAA
215761 ACCTTTAAGA ATTGCACACA TGGAAAAAGA TCAAGTAAGC TATATATACA CCATCTTAGC
215821 AATGATTTTG AAGTGAGAAAT TAAGGCTACC ACAGCTCCAG GTGGTAAGGA GAGAAATCAG
215881 GCTGGAAGAG TTTGAAGTTT CTGTATTATT CTAAGCTCTT TACTATTCTA TTATGAGCTC
215941 ATTAATTCTC ACAACAACCC TCTCATATAA GTACCATTTT AAATCTTTAT TTTACAGAGA
216001 AGGGAGTTAA GGAAGGTGGA GATTAAGAAA ATTGCCAAA TACAAATAGC CAGCAGGTGG
216061 TAGGTCTGAG ATTTAAGCCC ATGCAGATTT TAGCCCCAGA GCAGACATTC TCAATCACTA
216121 TGCTAGACTG CCTTTCATG GTATGTGATC CTACTCAGGC CTCTACAGCT TTATCATTTG
216181 TGTTCTCCCC AGCCTGTCGT GCTGAGAGTA TATACTCGAA GAGCAGAACT AAAATTCAT
216241 CCAGCTTCTC ACTCCTAGGT CCACTACACA GCTGCATCCT GCAGACTTTT ACCTCAAGCA
216301 ACCCTCCTGC GTTCTTGCTT CCTTCCATCA TAGTTGTAAC CATCTCCTCT ATTTGCAAAAT
216361 ACTATCTGCT GATCTCTCTC TTCTAGACTG GTTCTTTTCA ACCTTCTTCC CACCAAAACC
216421 AAGTTAGCTT GCTAAAATAA AGATGGCGCA TTTTACTCA CCCGCTTGAG AATTTTCAAT
216481 GTGTTCCCTC ATGCTTACAG AGTAAAGCCT GACCTCTTTA TTGCATGAAT ACAAAGTTC
216541 TTAGCCATCT GGCCCCAACC TTGTTCCACT CAACTCCCTT GTGCAAGCAT GGCTCCAGTG
216601 GCACTGGACA TTGGCTGCTC TCCACATAGA TCTGCACTGC ACTTCCCTCT GGCTCTGCTC
216661 CCGTTAGTTT ATATGCCTGG AAAGTTCTTT GCCCTGTTC CTTGTGCCAA AATTCATCT
216721 ATCCTATTGC ATAGCTTATG TAAAACTTC CTAAACCTTT TTTTTTTTTT TTTTTTTTTT
216781 TTTTTTTTTT TTTTTTGAGA CGGTGTCTCA CTCTTCGCC CAGGCCGGAC TGCAGTAGCG
216841 CTATCTCGGC TCACTGCAAG CTCGCCCTCC CGGGTTCACG CCATTTTCTT GCCTCAGCCT
216901 CCCGAGTAGC TGGGACTACA GGCGCCTGCC ACCATGACCG GCTAATTTTT TGTATTTTAA
216961 GTAGAGACGG GGTTCGAAGC CAGGATGGTC TCAATCTCCT GACCTCGTGA TCCGCCCCGC
217021 TCGGCCTCCC AAAGTGCTGG GATTACAGGC GTGAGCCACC GTGCCCCGCC AAAACTTCTT

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217081 AAATCTTATA ATTATTATCA ATTTATCCTC AGATATACTT CCACGTACAT TGTAGTTTTA
 217141 TTATATTTAT ATTTTACATC TTTTTTTTCA AATTGCAGTT TGGGACCCAT TAGTGAGTCA
 217201 TAAATCCAT TGAGCGGGTT AAAATCATT TTTTAAAAA TGAGTAGAAT AGAATAGAAA
 217261 TTGTTGGAGT GCATTGGACA TGGTAAAGTT AAATATCGAT TCATGAAACC ATCGTTTGAG
 217321 GCATATGTGT GTGGTTGTAT GTACAAGTGT TTATGCATAT TGGTGTGTGT GTTATGTTAC
 217381 CCTGTAAAAT GCATTTCTTA CTATAGGTCT CTGTGAAATA TGTGTCTTGT TGTTTTTTAA
 217441 TGTAGACTTC CAAAGCCTAC ATGGCATTTC ACTAGTGACA ATCAATTTTA TTCACATTTT
 217501 TCTCTCCAAT TGGACCAGAA GCTCTTTGAG GGCAGGGGCT GTATCTTACC GATTTTGTGA
 217561 AGTCTTTCAT TTCCTGCCCC TAGCCTCATA TTAGATCATG CAAGAATGCA ACTGTAATCA
 217621 CAAGAAAATG CTAATGGGCT GTGATAGCAG AGAGTTACTG TGACAACTA AGGGATTTAG
 217681 ATTTGGTCAC ATTGGTGTG AGGAGCCATT GAAGAATCAG AGAGTGTGTT ACTATTATTT
 217741 GTTAATTTTA ATTATATCAT ATTACTTTAC TGGGGAAAAT CTGTGAGCTA TTTTAGAAAT
 217801 AAATACTCTC ATTGCCAAT AATTCTAAGT CTGCCACCTC ACTGTTGGGA CATTGTTTAG
 217861 GGAGGCCACG AAGTCTCAGC CTTTGATATT TTCATAAGTG TTTTCTCCC TTTTCTCTT
 217921 AGGGTCAGCA TTTGGATCCT TCATCATCCT CTGTGTGGGG GGAATAATCT CACAGGCCCT
 217981 GAGCTGGCCT TTTATCTTCT ACATCTTGG TGAGTCACTT TCTCTTAAAT CCTAATGCCT
 218041 CCATTTCTCT AGCATCCATT TTGGCACCTA CACCACCAC ATTCTTCTTA TATGAAAGAA
 218101 AATGTCTTTT ATCAAATGGA AGATGATAAA AAATGTCAAC GGTTGGTATC ATTTTAAATC
 218161 TAGTCACACA ACCTGATTAA CACCTTCTCT GTGGTTCTGG GAAGCCACAC GCAAAAGGTA
 218221 GAGGAGTTGA CTATTCACAT GGCACCCACC GACTTGTGAT GCAGTCTTGT CCTTCCATAT
 218281 CAAGCACCTT CTGCAGAATC TCTACCACCA CATCTGAAGT GCCTGCTATA TGCAGTTAAG
 218341 ATGTCAAAGA TAGTGAAGTA CATTTTCAAT GTGTCTTCAT ATTTTCAAT AATTATTATT
 218401 TCTGTCCAAG ATGCCCTTCA CCTGTCTCT ACCAAGTTAA TCTTGCAAAG TTCAATTCAA
 218461 ATGTTCCCTT CCCCATGGGC CTTACCCTGT CAGATTCTGG CATTTCTCTCC
 218521 TTTATGATAT TTCCTCTCTA GGTATAGTTG GTGTGTAATT ATTTATTTCT CCTTTTCTTT
 218581 CCACTAGACT GTGAAATGCT TGAGGCAAGG AATCCATTCT ATGTTTTCAT CACTTGGGTG
 218641 TCATCATGGT GCCTGATTTT TAGCTTTAAA ATAAAAGAAT CAGTGAATCC AGTAATTAGA
 218701 GGGGATTTAA AGAAAAC TAGTCTCAGAAT CTTTAAACAT AGAATGTTCT TCAAATAAGG
 218761 AATTCCAATA ATAAGACAAT TTCTACACT TGATTTTGTT TTTATAGCCA AATGGTGTCA
 218821 TTAAATATAG TCCTGGCCTG AATGGCTTTC TCATTAATGA TGCTAATTAT TTTGGTTTGT
 218881 ACATGTTAAC CAGGTATTGT ACAAATATAT TTCTTTTGGG AATCCATAAT GGATGTATGG
 218941 CTTGAATACA AATAACTG TCTCTGTAA GTGCATTGGA AATTTTCCC TGCCACATGA
 219001 TTTTCATGGAA GGTGTTTTCG TGTATGTATG ACTGCAAACC TGACTATTCA GATCTTCCGC
 219061 AACAAGACAA CTTATGTGTG CATTAAGAAG TTGCTGCCTA AAATACATAA CACTGTAAATC
 219121 ATTGGAGACT TTAAAGTAAT TAATCAGCTA TGCAATGCCA CGCTCCTGTT ATCTCCAGAG
 219181 GGCTCTGACA TTGACAAATG GTGGCTTTCT ATTTGAGACG TAATATCTAA AAAGCTTTAA
 219241 CAGGTTTGTG GAAGGATTGA AAGAAAGAAT GGGAACATTT AGGTCCTTAT GGTAGAATAA
 219301 GCATTAATTG ATTAGTGTGT AGAAGGGAGA GGCATGCCAC TTCAGAGGAA ACTTCTCTCC
 219361 CCCAGTAAAC AAATCTACCT AAAAATAAT TTTATCCCTT CTTCCAGGT AGCACTGGCT
 219421 GTGTCTGCTG TCTCCTATGG TTCACAGTGA TTTATGATGA CCCCATGCAT CACCCGTGCA
 219481 TAAGTGTAG GGAAGGAG CACATCCTGT CCTCACTGGC TCAACAGGTA CAGTGCACAC
 219541 CTTGTACCTG TGGCCCATGC AGAGTCTCT AGGGCAGGT GTGGATCTCC TCTGAGAGGC
 219601 ACCATCTTGG CTGCTCTAAT ACTCATGCTG ATTAGATCTT TCTTTTCAGC CCAGTTCTCC
 219661 TGGACGAGCT GTCCCCATAA AGGCGATGGT CACATGCCTA CCACTTTGGG CCATTTTCTC
 219721 GGGTTTTTTC AGCCATTTCT GGTATGTCAC CATCATCCTA ACATACCTAC CAACGTATAT
 219781 CAGTACTCTG CTCCATGTTA ACATCAGAGA TGTGAGTTTA CTTCTTATAC TTCTACGAAA
 219841 ATGATAATGG TAATAAGGAG AAACAGTTCT GTGTTACCTA TTACATTCTG GCTTTACATA
 219901 TAACCATTA TTTAACCTTC ACAATGACCT TGAGAGAGGC ATTGTTATAA TTCCCTTTTC
 219961 ACAGATGTGG AAACAGGACA CTTAGAGGTG AGATAACTTG CCCCAGGTTG CACAATACTA
 220021 AGTGATAGAG CTGCTGCAGC ATCCATATTC TTAACCACTA TGCTATACTA CCACACCAGC
 220081 TGATTCCAAA GCTTCTTTTA GAAATAATAT TGCTGGGCCA GGCATGGTGG CTCATGCCCTG
 220141 TAATTCCAGC ACTTTGGGAG GCCGAGGCAG GCAGATCATG AGGTGAGGAA TGCAAGACCA
 220201 GCCTGACCAA TATGTTTAC TAAATATCAT CTACTAAAA TACAAAAATT AGCCAGGTGT
 220261 GGTGGCAGGC ACCTGTAATC CCAGCTATTC AGGAGGCTGA GACAGGAGAA TCGCTTGAAC

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220321 CCAGGAGGTG GAGGTTGCAT TGAGCCAAGA TCATGCCACT GCACTCCAGC CTGGGCGACA
220381 GAGTAAGACT CCGTTTCAAA AACAAAAAAC CCAAGAAATT AATATTGCTT TTATCTGGAG
220441 CCCAGAGTGA TGCAGCTTCT GGCCCTCTTA TCTGAGACAG TGTTCTTTTA GTGTGAAAAA
220501 GGATGCTAAT TTTCCCCCAA ACAACCCACA GTATCATGGG GGTAAGTTAA TGGCTGGTCT
220561 GTGTAACCTGA CAAATTTTGG TGCTAACGTA TCTCTATAAC TACTCTGTAT AAACCTCCCTT
220621 CCTTCAGAGT GGAGTTCTGT CCTCCCTGCC TTTTATTGCT GCTGCAAGCT GTACAATTTT
220681 AGGAGGTCAG CTGGCAGATT TCCTTTTGTC CAGGAATCTT CTCAGATTGA TCACTGTGCG
220741 AAAGCTCTTT TCATCTCTTG GTAAGGATAA GCGTGTGGGC CCATTTAACC AATCCCTTTT
220801 CTGCACATGG TCTCAGAGGG TTCCCTGACA GCATGTCCTC ATTGCCCAGG GCTCCTCCTT
220861 CCATCAATAT GTGCTGTGGC CCTGCCCTTT GTGGCCTCCA GTTACGTGAT AACCATTATT
220921 TTGCTGATAC TTATTCCTGG GACCAGTAAC CTATGTGACT CAGGGTTTAT CATCAACACC
220981 TTAGATATCG CCCCAGGTA AGAGCTCTAC CTGTTTTTTC CCCTCCTCCA GACCCCTCCA
221041 GAGGTGTTAG ACCTCAGTGG TCGCCGTGAA ACTCTTTAAT GTTACTGACA TTGCACTAAT
221101 GGCAGAATGA CAAATAACTA CAAATATCTG TCTGTGGCCA TTTTGTAGAAC AACAAATGTG
221161 GCATTTTGTAG AACAACAATT TCCATCTTG GCCAGTAATC ATTTTGACAA AAACCTTCCC
221221 AAGCTTCCCT AACAGAGATT GAACTGTGTA TGCTGGGAAA AGGCCACAC ACAGGTGATT
221281 TGGAAAAGTT TCCATGGTGT TGTTTCAATT AGCTACCACA TATATATATA TATATATATA
221341 TATATATATA TATATATATA TATATATATA TACAGTCACA ATAAGCCAGC TCCTGTGCCA
221401 AGACTTGCCA TATATCAACA CATCTAATCC TCACAGTTAT ATTAGGTAGG CCCTATTGTT
221461 ATCCCCATTT TATAAGGGAG AAGGCTGAGG CACAAGGAGG TTAAATGGTG TGACTATGGT
221521 CACATAAAGG CAGAGCCAGG ATTTGGACTG GGGGAGTCTG GCTTTGGAGT CTGTGTCTTG
221581 CCCGTTGCAC AAACCTGGCTT CTACACTGAG CAGCCAGGGT AAAGAAACGT GGTCCCCAGA
221641 GAGACTGCAT TGCTCCCTGG TTATTGACTT GGTAGATTGG TAATTTTCAGG TTTGGCAAAT
221701 AGACATTGCC CTGAATGTCT TTAGGTGAAT GAAAAACTGC ATTAAGCAAA ATGACTTTGC
221761 CATTAGAGCT GAATTGCATT AAAGTTGAGT TGCTGCAGAA GCTGTAGGTG GCTTCTCTATA
221821 TAAATCATT TATAAATCA TCTTCCCAT GATATGCAAG TTTCTCATG GGAATCTCAA
221881 GGGGATTTGG GCTCATCGCA GGAATCATCT CTTCCTACTG CACTGGATTG CTCATCAGTC
221941 AGGTTGGGTC AGTTTATTGA ACATCTTCAA GTGGCAGGTA TTGTTTTAGG TGTTGGAGAT
222001 ACACACGGTG CTCTAAAGAT CTGGATGGCA ACACAATTAC TCTATTTACA TGAGCCTCTA
222061 AATCAGACTC TGGTAGGTCA GATTTCCAG AGGAAGAAAA ATATAAGCTT ATTTCTCTCAA
222121 GATGAATAGA TGTTAGATTG ATTTAAATGA GCTGTTCCGG TGCAGAAGAC AGCACGTATG
222181 ACTTCCTAGA GGTACATGAG CATGAAACAG TTCTTAGTTA TGACCAGAAT GAAAGACACA
222241 TGTCAAGGAA TAGCAAGAGA CGAAGACAGA GGGGCAAAAG AAGATCATGA AGAATATGTT
222301 CAGACTAATC CAATTTTAA AAAATCACAA AAGGGAACA AAGTGTCTTA GGCCAGTTTA
222361 AAGATAATT AATGTCTGGA AACAGATCGG CTGTGAGACA TTGCAAGGAG GCTTGCTCGG
222421 TGTTTGGAAA TGCAGGCTCA TGAGGAAGAT GAAAAGACAG ACCCAGGCAG GGATGGAAGG
222481 ACTGACTAGA ACCAATTAC AAAGAGAAGT TTTGTTTTTA CTACATTCT ATGTGATCAA
222541 GTTCCCAGGT TAATATTTGA CTAACTGCT AGGAATCCAC TGTGACTATA ATGCTGGAAA
222601 TGACTTAGTA GGGCTTTCTG AGGAGGGTCA CACAGAAGAC CAAAGAGAAC TCATGTTGAA
222661 TTGAGATGGG TTATAGTGAT AGTTGTCAAC AGCCAATACA GAAACAAAAA AAAACAAAAC
222721 AAACAGCAAC AACAACAACA ACAAAAAAAA AAAACAGAGA AGACACAAAC ACAATGCCAC
222781 AATGCCATTT TAGGCATAAT TTTAAATGAG TAATATTATA TGTTGAAATC CAAATTTTCA
222841 GAAAAACATT AGTGTATTTT ATTTTGTGTT AAAGAAATAA CCATCTCAAC TCAGAACCCC
222901 ATGTGCATTT TGGCCATTTT GTTCCCAATA GTTTCATAAA CTTTCTTAAG TAACACTGTC
222961 ACATTGTTCC TTATATTCCT TGTGATCAAC ATTGCAATAC ACAACTGGGA GGGCTACTAG
223021 AACTGGTGTA GAAGGAACTT GTGAGATTGA TCATTTCTC TGTTTTTTAC ATCTAGGATT
223081 TTGAGTCTGG TTGGAGGAAT GTCTTTTCC TGTCTGCTGC AGTCAACATG TTTGGCCTGG
223141 TCTTTTACCT CACGTTTGA CAAGCAGAAC TTCAAGACTG GGCCAAAGAG AGGACCCCTA
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223321 TGTTGTAGTC TTCCCTGGGG AGCCTTTATA AGACACTGAT ACTTGGGACC CACTCCAGAG
223381 ATTCTGAATG AATTGGTCTG GGGTGGAACC CAGATACTAC TAATTTTTAG ATACTCTTTA
223441 GAGGTTTCTA GCATGCGCCC GGGTTGACA ACAGCTGGAC AAACCTGAAA AGTCAATTCA
223501 TGTGGCCTTT GAATTTTCTT CATTGGAAG TACTAAATAA ATAAAAATTC ATGTGAAAAAT

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223561 GATCACTGAT AAATATCTTC ATGGTGGGGC AGGTTATTGG ATGCAGAGAA GATCTGCTCG
223621 GAATTGTAGC CATATGTTAC AGATCTCAGC ACCGATCAGA ACTGTAAAGC TATAATCCCC
223681 AGAATTAAAG TTTTATTAT TTTTATACA TTGTAAACA TAGACGTTTA TTTATGTGAT
223741 TAAATTCTAT TAAAATTTAC ATGCTAAAAA AAAATAGACC ATTTTCAAAT TATTTAGATC
223801 CAGATATTTT CATCAGATTA AACAGATATT TATTTATCCT AGCCCAATTG CAAGAGATTA
223861 ATGATGAGAA AATGACCAAT ACAAGATTAA ATAAATGAGG TTAACTTAGA AATCAAGGAC
223921 AGAGAAGATA GAACTGGAAA GCTTGTATTG TGAGAAGAAT GAATGTGAAG GAAGGCAATG
223981 TAGACACTTC CAGAAGGGAT AGCAATATAG TTTAGACCAT ATAATGAAA TTGGAGAGAG
224041 ATGACAGAGA CACTTTCAAG TGAAATGACA ATTTATATGG GGGAGAAAAA TATTGAAGAC
224101 ATAACAAGAT GAGAAAAGGC ATAGAAATGT ATCACATACA AGGCATAGAA GTGTATCACA
224161 TACAAGAGAA GTTCCTTTTG AGCGTAGAAA AAGATAATTT AACCTTCTTC ATATTTTCTT
224221 TACTTTCCCA AGATACTCAG ATAGGCAGCG TCAACTCTAA CAGGAATTAA TTTGGCTCCT
224281 AACACTTAAG ACATATCCTT TAGTTTGTCT CCTCACACAG AACTGATTCT GGTTTTGCCA
224341 CAACATGTCT AGAGAAGAAG TTCCCACCAT ATTTTAAATC CTATTAAAAA ACTGCTTGGA
224401 CAAGAACCCT GGGCTAATTC AGCAGATGAA GAGAATCTCC TAATGCAAAT CAATGGGTAT
224461 TTTTGAGCAA GTTTTTCAGA AAAACAGAGT GTCAGGCCCT GAGGGTGGTA CTAAGATGAG
224521 AACATTGATT TTGCCTTCAT GATATTGACA ACACAAAGAG GAAAGGGGGT TTGCAGAAAA
224581 CTAAAAGAAG AAGTAGAAGA AAAAAGAAAG ACATAGTATA ATAGGTAGTC AAATTATGTA
224641 CAGAAAAAAG AGGAAAAAAG ACCAAAAAAG GGTGGGGGAC AGACAACCCA ACTAAAAAAT
224701 GGGCCAAATGA CTTGAACAGG GACTTCATAA AAGAGAAAAT GTAAGTGGCT CCTTAACATA
224761 TAAAAAGATG TTCAACTTCA TTAGTCATTA CAGAAATGAA AATCAAAACT ACAATGAAAT
224821 ACCACTATAA AATTAACTAA TGGATAAAAT GAAAGGAGAT GGAAACAAA ATGTTGCCAG
224881 ACATGTGGAG CAACTGGAAC TTTTACACTG TACGAATGTG AACTTTGGAA AGCTGCTCGG
224941 CAATATCTCC TAAAGCTAAA TTACAAATTC CAGTGAATCA GACATTTTAC TTAGAAATGC
225001 ACATATACAT CCATAAAACA TGTACAACAA TGTTTATAGG AGCACTATCT GTAATAGCCT
225061 GAACAGGAAG TTGTCTGTTA AAAAAAGAAT GAGTAAATA ACCACGGTCT ATTTGTATAG
225121 CAATGAGAAT TAACAGACCC CAATATATAA TAGATGAATG GGTCTCATAA GCACAATATT
225181 GATTAAAGGA AGACAAAACG CACATTCTTT TAAAGGTTTA TAAAATACTT TTTAAAAACA
225241 GCTACAACCA ATCCGTCCTG TTAATAATCA GTGAGCGATT TCCCTTGTGC AGGGATGGGG
225301 GTTGTGGCTG GATGGATGGT ACTTAAGAAG TGCTCCTGGG GTACTAGAAA TATTTTATTT
225361 CTTGACTTGG ATGTGTGTTT ACTTTGTGAA TATTGTACAT TTATGATTG TGCACGTTTA
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225661 TCAGCTCCC CAGTAGCTGG GACTACAGGC ACCTGCCACC ATGCCCGGCT AATTTTTTGT
225721 ATTTTTTAGT AGAGACGGGG TTTCACCATG TTAGCCAGGA TGGTCTCGAT CTCCTGACCT
225781 CGTGATCCGC CCACCTGAGC CTCCCAAAGT GCTGGGATTA CAGGTGTGAG CCACCGCGCC
225841 CGGCCCTGG TCCTCTGCTT TCATGTTCTT CTTGGTCTG TTCCTCTCC TCTTTTGTG
225901 GAACTTCCAG TATCAGAGCA GGAAGGAAG CAATGGGTCA ATCGATGCTG TCAGCTTTTG
225961 GATCAAACTG CAAGTTCTCA AACAGCAAAA TTAATGAGCT CAGGCTTTGA AGAAACCATG
226021 ACCCTGAAAG CATCAGTTGC TTCCAATTGC ATCAGTTGCC ACGGGTGATA AGAACAATGA
226081 TGA CTAGAA TGCCTAGGTT TTCCAGCAG CTTCTCTGAG GTTTTCCCAG CAGCTTCTCT
226141 GATTGATTCC TGACAGATGA CTTCCGGTGTG TCAGACTTTC AGGGTATCTT TCCTTATGTG
226201 ATGGTTTGAG GAAGAGTTAC CATTACATT CCTAATGGCT TCAGAATAGA TGCAATTGTG
226261 AACTGATAGG AAACATTTCT AATTCATCTC CCCTCCCCAT CCCTAAAGGA TTGTTTCTAA
226321 CAATAGTCAT GAAAATTAAT TCACCTTTCT CAAATAGTTT ATTGTCATCT ACCTAATGAT
226381 GAGATGACTT ACTTTTTCTC CTTGACTGTT AAATATTATG AATTATATTA ATGTATTCTT
226441 TAATGTTGAG CTTCCCTTG AATATCTTT TGATGTACGA CAGAAATTTGA TTCACATAA
226501 GTTTATTTAG GACTTTGGCT GATGTACTGA TATATGAGAT TGGCTCTGTA TGCATACATG
226561 TGTTTTGTGT ATCTTTTTTG TGCTGGATA TGAGACTTAT GCTGATTTCA AAAACAAGAA
226621 AGGAGAACTT TCCTTTTTCC CCATTACTCT GAAAAAGATT GACTAGAATG GAATTTTAT
226681 AATTGCTGTT GTTATTTGAA AGCTTGAAAG CATTGGTTTG TAAAAATCAT GCAGGCTGAA
226741 AGCCATTTTG AGGAGACTTT GATAACTTTC TCAATTTCTT TCAGTTACTG GTCTTTTAAG

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226801 GGGTTTTATA TTTTCTTTG ATCAATTTTG ACCATTTATG TTATCTTGA GGATCATCTA
226861 TTTTACACAC TATTTAAAGT ATATTTGCAA AAATTCAACT GTTTTATCAG GCTATCTTTT
226921 TAATAATATA TTCATTTTAT CTATATCTGA GGTTTATAGT TCTTTGTACT TCTGACCCAA
226981 TTGCATGTGT GCTTCTTTT TCCTTCATTA GACTACTTAG TCATTTACTA ATTTTAAGAA
227041 TAGCTTGTCT TTTATTTATT TACTTATTTA TTTTGTAGAC GGAGTCTCAC TCTGTCAACC
227101 AGGCTGGAGT GCAGTGGCGC GATCTCGGCT CACTGCAACC TCCGCTCCC GGGTTCAAGT
227161 GATTCTCCTG CCTCAGACTC CCGAGTAGCT GGGATTACAG TCATGCACCA CCATGCTGGG
227221 CTAATTTCTG TATTTTAAAT AGAGATGGG TTTTGCCATG TTGGCCAAGC TGGTCTCAA
227281 CTCCTGACCT TAGATGATCT ACCACCTTG GCCTCCCAA GTGCTGGGAT TACAGGCATG
227341 AGCCACTGCG CCCAGCCCTG CTGTCTTTT TATTTTATAT TTGATTAGT TTATCTTTTA
227401 TCAAGCTTAT GTCCTATTTT CCTTTGCTTT ACTTCATATA AATTTTGTTT TGGATAGTTT
227461 ATTTATTTTT CATTTAATTA TGAAACAGGT TAAAGCTTAG AGGAAAATTG CTCCTCTAAG
227521 TCCACTTTTG TGGGCAGATT ACATTTTGCT GTGTTGTGCT CCCAAATTCA TTGTTCTTTT
227581 AATGCTTTTAT TTCTCAAGTT AATAACCTAT ATAGTAAAA AGTGGCTGTT GACTCTCAGC
227641 TTTTTTTTTT TTTTTTTTTT TTTTTTGTG GATACAGGGA TCTGTCTGTG TTGCTCAGGC
227701 TGGTCTGAAA CTCCTGGCTT CAAGGGATCC TCCTGCCTTG GTCTCAGAAA ATGCTGGGAT
227761 GACAGACATG AGACACCATG CCCAGCCATG TCTCTCTCCT TATATATAAT AAGAAAACAG
227821 ACACACTGAG GCATCCTATC ATCTCACTCT TGGTTTCACT ACTGTTCTCT GGAAGTTTTG
227881 CTCTGACCTT TTGCAGTTAA TGTATTAATT TTGCATTGAG TAGTTTCCAT AGAAGAATTA
227941 TAGCATTGTC ATTCTGTTGG GTATTATACT TTTCACTGTT ATTTGAACAT AATTTGAGGG
228001 CTGAAACCAA GATGAGGCAA GTGAGGTGCC CAGGAAGCAA TATTTAAGGA GGCATCCTTT
228061 CTTAGGCTCA TGCAAGAACA GAATTGGCAC ATGAGAGTGA GTGCTCCTT AATTTTGAGT
228121 GCTGGACACT TCTTGCTCAC TTAGCATACC CCTGGACAAT GAAGTGTGTT TTGTTTGTG
228181 TTTTCATGTC CATCCTTTAT CCTTCTTCAT CTCAAAACAT TTCAATGGAG TATTTTTTTG
228241 GAGCAGTACT TGGATGAGCC TCTGAGTCCC ACAGTAGCTG AGAATTTATT TCATAGTACT
228301 CTTTATGATC ACTGTGGAGC CTTAAACAT TGTAATATTA ACTTAGCTGG GAACAGAAAT
228361 TTTGTTCCAC AATTTGTCTT ATTCAGACA GTATTGACTT CCTGCTAGTC TCTTCTGATG
228421 TCCAATATGA GGAAGTCTAG TTAGCCAGCT ACTTTTGTG GGAGAGCTAT GTTTAGGCTA
228481 GGTGCTATAG GATTCTCTTT ATCCTGGAAT TCCTTCACCA AGATGTGCCA AGGTGTTAAT
228541 CATTTTCTCT TGCTTTTGG CTGGTGGTCT TAGAGTTTCC TTCGATTTTG TTTTATTTAG
228601 TGATTGTCTT CAATTTGTTT TCTTTACTAA GAATCTCTCT TCTATTTATC TGTATGGTAA
228661 AACCTTGTG CCCATCTTTC TGGTTTCTGC TGACTTTTAT TTTTGGACCT TTTACTTTGC
228721 TTTCTCCATG GACTTTTGG TAGTGGAGGC AGGCAAACAC TTTCCAAAGT CTTTCTCAAT
228781 TTCCATCAAT TTCAACTTAT TTCCTAAAT TGCCCTCAGAA TGTGCCTATG TCCACAATAT
228841 CCCTCCTTCC ACTTTAGAAA GGAAGGCAT CCACACTTTA TTTAGGTGCA ATGCCTGAAG
228901 TGTAACACT TTCTGGTTGT CAACAAAGGA GTACTTCAA ATATTGGTTT GGGGATAACC
228961 TGCTAATGAT TAACACATTC ACCTTGCTC TTGGTTTGCC TGCTCCCTCT TCTTTTATCT
229021 GCTGTGTGTA TTTTTTTTAA TCACTGAGAA TATGCACAGT ATTGTATGTT TTATTATAAG
229081 AGAGGACTGG CCAGAGTGGG AATGTTCTGA ATTCAGAATA ACTGAAGCAG TACAGGATAG
229141 GAACCTATT TTTCAAATGA AGCTGGCATA TTTCCCAGA GCACCAAATT TCAATATATA
229201 TTTAAAAAC TTGATATGAA TGATACAATA AAGTGGTTAG AACTTTTATT AAAATAAACT
229261 TATGTCATGA AATACTTATT CTAATTATAG TCACCTTTCA TCTTATTCA TCTTATAACA
229321 TGTTTAATGT TTTCTTTTAT TTACAAAACA ATTTATTTTT TGATGAAAAG TTTTAGAAAT
229381 CAAGTTAAAA ATATTCAAAG GAATGCCTAA AGTTTTCAA ATCTTTTAC ATGTTGTACA
229441 ATCAAAAGAG TCTGAAGACC ATTTAGCTAT CCAAATTGTT TATTTTAAAG CAGTATCCCT
229501 TCTAATATTT ACTATTTATA ATCCTTAAAA ATTTGCCCTA GCACAGGAGA ATTGCTTGAA
229561 CCCAGGAGAC GGAGGTTGCA GTGAGCCAAC ACAGTGCCAC TGCCCTCCAG CCTCGGCGAC
229621 AGAGTGAGAC TCTGTCTCAA AAAAAAAAAA AAAAAAGGCC AAAAAACAAAT
229681 AAACAAACAA AAAAATCCGC CTTAACATTA TTTGTTTATT AAAAATTTT TTTAATACTA
229741 CTAGTTTCCC TTTCTCTCA GCCCATGTC ATATTTTGAT TTTTATCACT TGCTTTGTAG
229801 GACATATGAG GTTTTTGTTT TTTTTTTTTT TTGGAGATGC AGTCTCCCTC GTTTGCCCGT
229861 GCTGGAGTGC AATGGCGCAA TCTTGGCTCA CTGCAACCTC TGCCCTCTGG GTTCAAGCAA
229921 TTCTCCTGCC TCAGCCTTCC AAGTAGCTGG GATTACAGGC ACCCACTACC ACGCTGGCT
229981 AATTTTTGTA TTTCTGGTAG AGACGGGGTT TCACCATGTT GGCCAGGCTG GTCTCGAACT

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230041 CCTGACCTCA AGTGATCCAC AATCCTTGGC CTCCCAAAGT GCTATGATTA CAAGCATGAG
230101 CCACCTGCCC AGCCAGAATA TATGTTTCATT TTGAGTCCTT TAACAAAGTC ATAAGAATTT
230161 TAGGAAATCA GTTACTTTCT TGAGAAAATC TCTGAAAAGA TGCCAATAAT TTGTAGCCAA
230221 TTATATTGAT TTCTCTTTT CATATTGAGA ATTGTTTTTT AAAAAGTTTG TATGTGTGAA
230281 GATTTTTGCA CTGTAGTTAA AGAAACCACC TGTGTGTTGG TTAAGCCATA AGTACATGTA
230341 TTCAAATAAA TTGAGGTGGG GTTACTCTGA GAATCAAAGG AAAACCTGAA GAAACAGGCA
230401 GCCTCAAAAG GTCTTAGCTG TAGCAACTTG CTCCATTGTT GAAATAAATA GGCTTGAACCT
230461 TGTATTTTCC CTCTACTCAA CATTTAAGGT CTCAGAAGAT AATATAATTG GTGAAATTTA
230521 AGTAAAGTGC TCACTCTTTT GCTTTAACAA ACCCTAGAGA GCTGGTAGGC AGAGCCTCAA
230581 CAGACCGTTT TAGCTTCCAA AGGGAGTTCA GGACACCATG ATTCACGACC ACAATACATC
230641 ACACATAATT GAGAAAAGAT AGTTCCACCA AATAAAGTTG AAATGCTGAC AAGAAGGGGT
230701 AAGAAATCTT GGAAATAGGT TTATATAAAA TTTATTTTTT CCTTTTTTAT TGTTATGGAA
230761 TAGGACCAGT TCTACTTAAG CCACCATTG GCCAAAATAA AGTGAGAATC GTTCTTTTGT
230821 GGGACTCCTC TTTGTAGCTC CAAGTGCCAC TAACAATTCT TAGGACCTGA GCTATAAGCC
230881 AGGTGATTTT AGTTAATATG ATCAATTATT TCATTTAAAT GGCTCTAATG TGCAGAGGGA
230941 ACGGAGCCCA TCAGCATTCC CTGCGAGGAA CTGCGAGTGG TTTTATCAAC TTGAACAGCT
231001 AGCTTTCAAC TGTTTTGAAA TCACTTTCAG GGTGGTCATG TAGTTGCTTT TTTGAAATCA
231061 GAAGATGATT CTGCCTCTTT TAATATGTA CTCCTCAGAT TCAGAAAGTG CTCGCTAGTC
231121 TTAAGAGTGA ATTACCCTCA GTGGTCCAGC GCTTATGAAC CCACATCTAA CCCTATCCCC
231181 TGGGGGAAC ATCAGAGAAA TTGGTGCCAT GGACATAAGA GGAAGGCACA GTGAAGCAGA
231241 GAGCCCCGCA TGATGAAAAT CAGTGACAG CATCATTATT TACAACCTTG TAATCACCCA
231301 GGAGCATGAA AATCCAGGCC AATCTGGCAC CATGAGCTCT AATTTTTGTT GGAGTTCTTG
231361 GAACCGATTC TGATGAATGA CTGTTTAGCC ATTTTAGAGT GTGGCATACG TGGCTGCTGG
231421 CATACAGAGG TTGGATGTAA ACGGGCCTTT GCCCTCTCTT ATGAACATAG ACAGGAACTA
231481 AACTGTGTCA CATAGGTTCC AAATGGTGGC CTGAATACTA TTTACAATA AGGTACAATG
231541 AAATTGAGTA AGTCTTTTCC TCTTTTGAG ATACCATCAT TATTATATA TTTCTTCAAA
231601 GTTAACTATT TGTATTTGGT AATTTTAAAT AGAAATGTAA TAATTGCTTC TCAAGTTTAG
231661 TCTTTAGTCT TAAGGTTGAT GCTCTCCATG TCCTTCCAAA AAAAGGTATG TTGCTTTTAT
231721 TATATCCTCG CCTTCAGATG GGATTATTCC ATTTTGTTCT TTGTTAATAT ATACTTTGAG
231781 CCACTTTTTT TGTGGCTCTG GGTGAGATGC TATAGGTACA ATGACAAGTG ATACGTGTGT
231841 TGTCCCTGTC ACAAAGTGG ATAGCCTAAG TGGTGACTTT TACCTCCACT CCAAATATAT
231901 GTATCACACA CCAGCCGTAT GCCAGGCACC ACTCTAGGTG CTAGGGATAC AGCAGTAAAC
231961 AGACAAATGC AACCCCTGCC CATGTGAAAG AGAATAAGAC AATAAATAAG TAAAGTGCAT
232021 GTTATATGGA GGTGGCAAAT GCTAAAAAGA AAAATTAAGC AGGCAAGAGG ACTCATTGAA
232081 AAGATGACAT TTGGGTAAAA GCCCCTGTAT ATATGTTCTA TTGGTTTTAT TTCTCTGGAG
232141 AGCCCTGACT AATACACAAAT GACTTTGAGA AGTTACTGGC TTTTGATTTA TCACACTATT
232201 CGGAGTGCTG AGAGCCTTCT TAGTGTGTAT TCAGTGTTT AAGAGAGCTT GTGGATGAAT
232261 AATAAATAGG ACAAATTTA TCCAACTTA AGCCTTGCTT TAGGTAAAAG GGCTCCTCTT
232321 ACAAGGTAGA AGGTTATTAT TTGACATTTA AATCCAACTG AAGACTAATA AGACTAATTA
232381 ATTAAGTGTG TTTAAATCAC AACTGCGTGC AAAATAAATG GAAGTGGCAT GCTCGCCAAG
232441 TGTGCAATGAG TGGTGTGCAT GGGAGACAGC ACGAAGCTAA TCCCACTCAT CTTGCAGGTT
232501 GCTCCATTTT TCTCCTAAAA TCAGTAAGAC AGAAGCTGGT CAGATTATCA AGAGCCCTAG
232561 TTAAACACAG CAGTAGCATT TGGAAGGGGT TGCTCTCATT AGGCAGTGCC TGACCACAAC
232621 AAGAGATGAA CAAGCCCTGT ATCTGAAGCC ATCATGCCTA GTTATGGTCC CCGACTGTTT
232681 ATGATGCCTG GAAGGGAGGC CCCCTGCACC CTAGAAAGCT GGGTGGGTTT TACTGTCTGC
232741 TTTACTGCTA AAAACCCTCT TCTTTTGATC TGGACTTTAC CTCTATCTGA TTTTTTTTTC
232801 TAATATATGA TTTGGCACTG AGTCTGTAC TGCTGCTAAC TCAGCAGTTT TAGGGTCATT
232861 GCCCCATTGC CTCACAGAAA GAATTTTATA GCTTCCAGCA TCCTCTCTCC TTCAATTATC
232921 TTTGATTTCA GCATTGCTAT TTTTCTCTT GGGTGTGCA GCTCTCTCTC TCCTTCCCAT
232981 GTCTTGTTGG TTTTCTGCTA ACTCCTGCTT TTTTCTTTT TTTTTTTTTG AGACGGAGTC
233041 TCGTTCTGTC ACCCAGGCTG GAGTGACAGT GCACAACTC GGCTCACTGC AACCTCGGCC
233101 TCCCGGGTTC AAGCTATTCT CCTGCCTCAG CCTCCCAAGT AGCTGGGACT ACAGGCGCTC
233161 ACCACTATGC CCCACTAATT TTTGTATTTT TAGTATTGCT GTCATCAATC CACATGTCCA
233221 GAAGCACCTA GAAACTCTAA TTCTTTGTAG GTATCAAACC CTAGGACTCT TTCCTCTAAT

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233281 CACAATATAT AATCCCTGAT TCCCAAACAC GGTCTTTTCA TATACATTTT CCACTGTACA
233341 TACTTTCTGA CCTGGAAAGC TCTTACACAA ACACGCCCTC CCCTAGGAAG CCTTTATAAA
233401 TGTTCCCAGG AAGAATCAGT CACCCAACAG TGTCCTTGTC ACATCTTAGG TTCTACACCT
233461 TTATTTGTTT TATCTGAATG TAATCTCCCA GAGGGTGTTA TCATCTTTTT TTTTGAGATG
233521 GAGTCTTGCT TTGCTGCCCA GGCTGGAGTG CAGTGGCATG ATCTCGGCTC ACAGCAACCT
233581 CCACCTCCTG GGTTCAGTG ATTCTCCTGC CTCAGCCTCC TGAGTAGCTG GGATTACAGA
233641 CGTGTGTCAC CACACCTGGC TAATTTTGTG ATTTTGTAGTA GAGACAGGGT TTCACCGTGT
233701 TGGCAAGGCT TTCCTCGAAC TCCCAAACCT AGGTGATCCA CCCACCTCAG CCTCCCAAAG
233761 TGCTGGGATT ACAGGTGTGA GCCACCATGT CCAGCCCCAT CTTTTCTTT TAGTTTAGTT
233821 CTTAACAAAT AGTCTGACAC AAAGTGGATA TAACAATATT TTGAATTATG AATAACTAAA
233881 TGAATATTTT CAGATTTCTT GGTGCTCTCA AAGTTTTATG TTACAAAAGA AAAACAAGTC
233941 TAAATACCT GCCTCAAGTT TTTATCTGTA CTATGATTTT AAACCAAATA AAAAACAGGT
234001 GGGGTAAAAA CTGAAACAGG AAATACATAT AACTGAAAAA TTTTGGTATG TTAGTATGAT
234061 AATACTAGGT CATTTTCTCT GTTCCCCCAA CTTCATTTTC TATAGCAATA AAAAGAAACA
234121 AGTAAATGTA TGTTAATTTA ATTTAAAAGA AGTAGTCTAC CATCTCTTCT GTTAAAAAGA
234181 AAAAAGTATT TTAATAAATT ATCTCTGGAA GGATACACAG GGAACATTGC TCTGGTTTCT
234241 TCCAAGAGAG AAATGAGGAA CTAGAGAGCA TGGCCAAGTG GGGTTTGTCT TTTGTTTTTG
234301 TTTGTCTATC TGTTAGCTTT TTATTATTTT CTTTGTAGG TTTGAATTTT AAACCACATA
234361 AATCTGTTAC ATGCTCATAA TAATAAGTTT AAAATAAAAC TTTTGGCTGG GTGCCATTGAC
234421 TTACACCTGT AATCCCAGCG CTTTGGGAAG CAGAGGTGGG AGGATACTTG AGGCCAGGAA
234481 TTTGAGATCA GCCTGGGCAA CATAGTGAGA CCCTGCCTCT GTAGAAATAA ACAAAAATTA
234541 GCTGGATATG GTGGTGATG CTGTACTTCC TAGCTACTTG GGAGGTGAG GCAGGAGGAT
234601 CCTTTGAGTC CAGGAGTTTG AGGCTGCAGT GAGCTATAAT CACCCACTGC ACTATAGCAT
234661 GGGCAATAAG GTGAGAACCT GTCTCAAAAA AAAAAGGGGG GGGGGAACA AATAAATAAA
234721 TATAAACAAA ACTTTTGTTT CAAAATATGT AATATTTAGC ACTAAAGAAT TCTGAATTGT
234781 AGAGCTAAAA AGTACTTAAA AGTTAATAAC TATTGTCTCC TTTAAAAGAA TTGTTATCAA
234841 AGTATAATTT TTATCCAGAA AATCATTATC ATCAGCAAGC TAACTTTCT CAAAATGACA
234901 TATCCATGTA ATTAGCTCCC AGGTAATTAG CAGGCAGCCT CTACTCAGT TGAGTAATCC
234961 TAATCTAAAA ATTGGAAATT CAAAATGCTC CAAAATCTGC AACTTTTTGA ATGCTAACAT
235021 GATTCTCAAA GGAGTGCTCA TGGAGTATTT CAGATTTTGG ATTTTGGAT TTGAGATACT
235081 CAGTATAATG CAAACATTCC AAATCTGAAA AAATCTGAAA TACTTCTGGT TCTAAGCATA
235141 AGGGATACTC AACGTGTGTT AGCTAATTAG ACCCTTCATG GTCTCTTCTA GACCTCAGCT
235201 TCTTCAAGGT AACCTCTATC CTCACTTCTA ATAGCATGAA CTTTTCTGTT TTAGAATAAT
235261 TTGGATTTTC AGGAAAGTTG CAAAGATAGT ACAAAGACAG TACAGGAGAG TTCCCATATA
235321 TCTTTCACCT AGCTTTCCCC CATTTGTTAGG ATTTTACATT ATTATGATAC ATTTGTCAA
235381 TATAAGCAAC TCACATTGAT ACATGAAACT CTATTAACCA AACCCTAGAC TTTATGTGGA
235441 TTTCACCACT GTTCCACTA ATGTTTCTT TCTGTTCCAA GGTCCAATCT GGAATACCAC
235501 ACTGCATTTT CTTGTCATAT CTCCCTAGTC TTTTTTGTG TGTGACAATG TCTCAGTCTT
235561 TTCTTGCTTT TCATGACCTT AACAGTCTG AAGATCATT GCTTTTTTTT CATAATTACA
235621 CCGGAGTTAT AGATTTTTTG AAATAATACC ACAAGGGCAA AGGGCCCTTC TTGTCACATC
235681 ATTTTAGGGA GAACATGATA TCCACATGAC ATCACTGATA TTAACCTTCA TCATGTGGTT
235741 TAGGTAATGT TTCAGGTTTC TCTACTGCAA AGTGATTTTT TTCCCTTAAT TTAGCCACC
235801 TGAACCTATC AATTTTGTTT TCTTCCATGA CTAATACTTT TGTATTATA GCTAAAACCT
235861 CATTTGGGGC AAATCTTAGA TCATGTAAT TTTCTTCTAT ATTTTATTCT AAAAGCTTGT
235921 AATGTTTGAT ACATTCTAAA AGATGTAATG TTTGATACAT TACATCTAGT CCTTTGATTT
235981 ATTTTGTAGT ACTTTTGAT AAGGTGTGAG AGATGTCTCC AGTTTCACTT TATTAACACA
236041 TTGTGGTGTT CCAGTACTAT TTGTTGCTAA GACTATCTTT TTCCATTGA TTACCTTTGC
236101 CTTAGTTGGC AATATTTTTG TTGGTTTATT TCTAGACTGT TTATCTCATT CCACTGATTT
236161 GTGTCTATCT TTTTGACAAA ACTGTTGATT ACAGTAAGCT TTGAAATAGT TCATTTTTTG
236221 TGTCAACTTG ACTGAGTCAG GGGATAACCA GCTATCTGGT TAAACATTAT TTCTGGCTGT
236281 GTTTGTGAGC GTGTTCTGG ATGAGATTAG CCTTTGAATA GGTGATCCTA GTAAAGTAAA
236341 CTGTCTTTCC CAGTGTGGAT GGCATTATGC CACCTGATAT TCAGGGTCTG AATAGAAGAA
236401 AAGGCAGAGG AAGGGGGAAT TTGGGCCCTT TTTCTGCCT CACTGCTTGA GCTGGGACAT
236461 CTCATCTGGT CTCCTGCTCT TGAAGTGGGA TTTACATCAT CAGTTCCTCT GGTCTCAGG

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236521	CCTTCAGATT	CAGACTGAAT	CATACCACCA	GCTTTCCTGG	GTCTCCAGCT	TGCAGATTAC
236581	AGATCATGGG	ACTCCTCATC	TTCCATAAAT	GCATGAGCCA	ATTCAGTCTA	TGTCCTTGAA
236641	AACTGCCCCA	CTGCAGATTA	AGGCTTTTTT	CCACTAGGTG	AAATAAAGAA	GCTTGTTAGA
236701	CAGATTTCCC	TTCATCCAGT	GCCCTCTCCT	CTTTAAGTTA	CAACACATTG	GCTACACCTA
236761	AGTGCAGGGG	TGGGGATGAG	GGTATAGTCC	TCTTGTTTGC	TGAGAAGAGA	ACTGTATTGG
236821	GAAAGCTCTA	GAAGTGTTTG	ATACATACAT	AAACAAGGCA	TGGTTTTTGC	ACTTAATTTT
236881	ACATTACATT	TTTCCCAGAA	AAAAAGGAAT	GTATAGGCAT	CACGTAAGTG	TACTAGCTGG
236941	AGTCATTCTT	CCTGATTATC	AAAGGTAAAC	AGTTATTAAT	CCTATACCAA	GATGTCAAGG
237001	AGAAGTACTT	TTGGAACACA	AGGAATTCTC	TGGGAGTCCT	TACTACTCTC	AAGCCCAGTG
237061	AAAAAGTTAA	TGAAAAACTA	TAGTACCTTC	CTATAAGCTG	GATGACTAAT	TACCAGGCTC
237121	ATTTAGGAAT	TTGCCTTACC	AAGTAAACA	TAAGGGCAGC	TGAGGTGCTG	ACTGAAGACA
237181	AATGGAGCAT	AGAATAAGAG	TAGTAAAGAA	TGCCAAAAAT	GCTGTCATGT	ATCCATTGAC
237241	AAAAGGAGCT	ATAAAGCCTT	TAGGTATTTT	CACACTTGCT	CTGTTACGTA	AATGTATGTG
237301	TGTGTGTGTG	TGTGTGTGTG	TGTGTG			

Figure 9 (Pag 74 of 74)

SUBSTITUTE SHEET (RULE 26)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C07H 21/04; C12Q 1/68; C12N 15/63, 15/85; C12P 21/02

US CL : 536/23.5; 435/6, 70.1, 325, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.5; 435/6, 70.1, 325, 320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG'S BIOTECH cluster.

hemochromatosis, BTF1, BTF2, BTF3, BTF4, NTP-3, NTP-4, RoRet, butyrophilin, type I sodium transport

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	RUDDY, D.A. et al. A 1.1-Mb transcript map of the hereditary hemochromatosis locus. Genome Research. May 1997, Vol. 7, No. 5, pages 441-456, see entire document.	1-20, 22-77
X	FISCHER, L. et al. Cloning of the 62-kilodalton component of basic transcription factor BTF2. Science. 04 September 1992, Vol. 257, pages 1392-1395, see entire document.	28-33, 71
X	MARGOTTIN, F. et al. Participation of the TATA factor in transcription of the yeast U6 gene by RNA polymerase C. Science. 25 January 1991, Vol. 251, pages 424-426, see entire document.	22-27, 70

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
I document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
U document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

20 JANUARY 1998

Date of mailing of the international search report

12 FEB 1998

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHENG, X.M. et al. Sequencing and expression of complementary DNA for the general transcription factor BTF3. Nature. 05 April 1990, Vol. 344, pages 556-559, see entire document.	34-39, 72
X	PANTEGHINI, M. Electrophoretic fractionation of 5'-nucleotidase. Clinical Chemistry. February 1994, Vol. 40, No. 2, pages 190-196, see entire document.	52-57, 75
X ---- A	BURT, M. J. et al. A 4.5-megabase YAC Contig and physical map over the hemochromatosis gene region. Genomics. 15 April 1996, Vol. 33, No. 2, pages 153-158, see entire document.	1-6 ---- 7-20, 22-77
A	VERNET, C. et al. Evolutionary study of multigenic families mapping close to the human MHC Class I region. J. Mol. Evol. November 1993, Vol. 37, No. 6, pages 600-612, see abstract in particular.	1-20, 22-77

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☒

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-20, drawn to polynucleotide sequences containing at least one polymorphic site, polypeptides encoded thereby, antibodies to said polypeptides and a method to determine the presence of the HFE gene mutation.

Group II, claim 21, drawn to the lymphoblastoid line atcc crl-12371.

Group III, claim(s) 22-27 and 70, drawn to BTP1 nucleic acids, gene products, vectors and antibodies.

Group IV, claim(s) 28-33 and 71, drawn to BTP2 nucleic acids, gene products, vectors and antibodies.

Group V, claim(s) 34-39 and 72, drawn to BTP3 nucleic acids, gene products, vectors and antibodies.

Group VI, claim(s) 40-45 and 73, drawn to BTP4 nucleic acids, gene products, vectors and antibodies.

Group VII, claim(s) 46-51 and 74, drawn to BTP5 nucleic acids, gene products, vectors and antibodies.

Group VIII, claim(s) 52-57 and 75, drawn to NPT3 nucleic acids, gene products, vectors and antibodies.

Group IX, claim(s) 58-63 and 76, drawn to NPT4 nucleic acids, gene products, vectors and antibodies.

Group X, claim(s) 64-69 and 77, drawn to RoRet nucleic acids, gene products, vectors and antibodies.

The inventions listed as Groups I-X do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups I and III-X are drawn to physically different genes and their gene products and each therefore constitutes a separate invention. The lymphoblastoid cell line of Group II is not dependent upon the vectors of any of the Groups I and III-X and therefore constitutes a separate invention. Accordingly, the claims are not so linked by a special technical feature within the meaning of PCT Rule 13.2 so as to form a single inventive concept.